

ALLIED RADIO

833 WEST JACKSON BOULEVARD

CHICAGO, ILLINOIS



ELMER DAVIS
and the NEWS

EVERYTHING IN RADIO



1941

INDEX ON
PAGES
206-207

Beautiful=Powerful

1941 VALUE SCOOP!



OUTSTANDING 1941 FEATURES

- With "Magna-Beam"
- 2 Watts Output
- 5" P.M. Speaker
- Full-Acting A.V.C.
- Clock-Type Dial
- Receives Police Calls
- Latest Plastic Beauty
- New 1941 Superhet

You've never before been able to buy so much radio quality and dependable performance for your money! And you can prove it for yourself by taking advantage of our 15 Day Trial Offer—see page 13 for full particulars.

R.C.A. LICENSED

Knicht 5 TUBE AC-DC SUPERHET

We feel we've a right to be excited about this new 1941 **Knicht 5!** And you'll be excited, too, because there's never been a more beautiful plastic cabinet design, never so much real performing ability or so many fine and practical features at so low a price. Here's our Value Leader for 1941—a real gem of a radio—whose looks, quality or price can't be beat anywhere!

"Magna-Beam" Antenna. Built right into the set—does away with outside aerial, ground wires, etc. Just plug in like any ordinary appliance and enjoy perfect reception. (Also has extra connection for outside aerial when stronger reception of distant stations is desired.)

Plays Anywhere. There's nothing more versatile in radio—plays with equal efficiency from 110-120 volts, 50-60 cycles AC or 110-120 volts DC. (Can be used from 220 volts with adapter listed below.) Take it anywhere; play it anywhere. It's always ready for perfect operation.

Powerful Reception. You'll find this new **Knicht 5** one of the strongest radio performers of its size. Tunes 535-1712 KC.; covers the entire American and Canadian Broadcast band and the popular 1712 KC Police Channel. Brings in all stations with uncanny ease and precision.

1941 Superhet. The 5-tube circuit (including rectifier) is RCA licensed and that means the latest improvements from this great engineering lab. You get more than 5 tube efficiency and power with the following line-up: 12SA7 is Conv.-Osc. (dual-purpose); 12SK7 is IF Amp.; 12SQ7 is Det.-AVC-1st Audio (triple-purpose); 35L6GT is Output; 35Z5GT is Rect.

All These Features: Has full-acting Automatic Volume Control to prevent fading and to keep volume uniform on all stations. Develops amazing 2 watts output—seldom possible in a set this size. Uses the latest type of fine fidelity 5-inch PM Dynamic speaker. Features an attractive 4" x 3½" glass-face Clock-type Dial that's easy to tune. The **Knicht 5** is quality-built; uses only the finest standard parts throughout for the most dependable radio results.

Tone Comes First! And you'll hear a striking difference the moment you first listen to the **Knicht 5**. We set out to bring you the clearest-toned plastic table model radio that could be built—and we've succeeded! You'll get a real listening-thrill on every program you tune.

A Style Gem. Gracious beauty is reflected in every smooth line of this lovely plastic creation. It is a radio you can be proud of, that will reflect an enduring beauty in the finest home setting. Soft, smooth lines are enhanced by the graceful louvre type grille. The **Knicht 5** is available in a choice of soft Ivory, or two-toned Walnut. It measures: 13¾" long, 6¼" deep, 6½" high. Comes complete with tubes, as illustrated and described above. For 110-120 volts, 50-60 cycles AC or DC. Shipping weight, 5½ lbs.

B10500. Walnut.

NET PRICE,

EACH, \$8.75.

YOUR PRICE,
LOTS OF 3, EACH....

\$8³⁵

B10501. Ivory.

NET PRICE,

EACH, \$9.80.

YOUR PRICE,
LOTS OF 3, EACH....

\$9⁴⁵

B9144. 220 Volt Adapter for above sets. **NET.....59c**

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MORE RADIO FOR YOUR MONEY!



R.C.A. &
HAZELTINE
LICENSED

Knight 5 TUBE 2 BAND ^{AC}_{DC} SUPERHET

Here's the radio of the hour—styled in the newest and smartest plastic trend—a 'way-ahead model that sets new standards for wide coverage, tuning ease, powerful reception and thrilling tone quality. You've never seen so many fine features in a set selling at so low a price. We mean it when we say that here's more Radio for your money! Just check these grand features that give you bigger radio enjoyment for 1941:

Short-wave Reception. You get the advantage of two-band tuning range with the **Knight 5**. Thrill to Short-Wave broadcasts; enjoy all domestic Broadcast programs. Tunes 2.8-6.5 M.C. for interesting Short-Wave programs; covers 540-1630 K.C. for all American and Canadian standard Broadcast stations. Tuning is easy and accurate with the big 3"x4" Airplane Dial that shows each band clearly and legibly.

Built-in "Magna-Beam." The new "Magna-Beam" loop aerial—built right into the cabinet—gives you perfect reception. Just plug in and play—without fuss or bother. (There's also provision for outside aerial when short-wave or stronger Broadcast reception is desired.) The **Knight 5** works with equal efficiency from 110 volts, 40-60 cycles A.C. or 110 volts D.C. (can also be used from 220 volts with adapter listed below). Play it anywhere; take it anywhere. You won't want to be without this thrilling radio companion.

Automatic Tuning. New Piano-Key push-button tuning arrangement gives you instant automatic selection of any one of your four favorite stations at the touch of your finger. Regular manual tuning is easy, too, with the big full-vision Airplane Dial.

A Wonderful Circuit. The **Knight 5** tube (including rectifier, plus ballast) Superhet is fully licensed by R.C.A. and Hazeltine and that means 1941's finest engineering developments will be found in the circuit. New tubes give you actual 7 tube power and efficiency. 12SA7 is Conv.-Osc. (dual-purpose); 12SK7 is I.F.; 12SQ7 is Det.-A.V.C.-1st Audio (triple-purpose); 50L6GT is Beam Power Output; 35Z5GT is Rect.; BT-1000 is Ballast. Tone and performance achieved by this circuit are comparable to that of the very best table model radios. You'll be surprised and pleased with the quality.

And You Get full-acting A.V.C. to maintain steady volume on all programs; 1½ watts Beam-Power Output that's beautifully handled by the full 5-inch Dynamic speaker and rendered as exquisitely lifelike tone. Only the finest parts, exactly as used in the most expensive radios, are built into the **Knight 5**—and that means consistently dependable, long-lived performance, and enjoyable radio reception.

Style Sensation! That's what they're calling this new **Knight 5**. You've got to see it to appreciate it fully. It's handsomely streamlined and one of the most perfect plastic-molded cabinets ever executed. Features softly curved lines and louver-type grille. Available in gleaming Mahogany or in soft Ivory. Measures 12" long, 7¾" high, 7" deep.

Knight AC-DC 5 Complete. The **Knight 5** Tube AC-DC 2 Band Superhet is supplied complete with tubes exactly as described above. For operation on 110 volts, 40-60 cycles AC or DC. Shipping weight, 10 lbs.

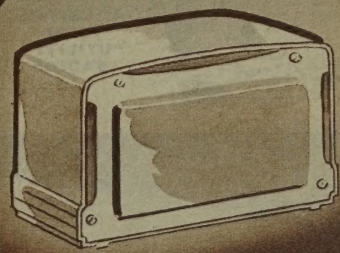
B10531. Mahogany.
Value, \$19.95.
NET EACH, \$10.95.
YOUR PRICE,
LOTS OF 3, EACH,

\$10.45

B10532. Ivory.
Value, \$22.95.
NET EACH, \$12.45.
YOUR PRICE,
LOTS OF 3, EACH,

\$11.95

B9145. 220 Volt Adapter for sets described above. NET.....59c



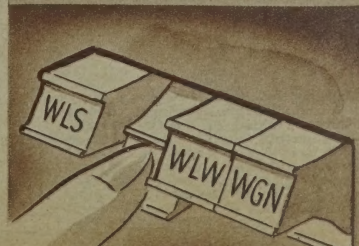
PERFECTED 1941 "MAGNA-BEAM" LOOP

Built right into the **Knight 5**—pulls in even distant stations just like locals. No more fuss with trailing aerial or ground wires—no more bother. Just place the set wherever you want it—plug in—and play perfectly!

PLUS THESE FEATURES!

- Tunes Short-Wave
- Plays Anywhere
- Big Airplane Dial
- Full-Acting A.V.C.
- 1½ Watts Output
- 5" Dynamic Speaker

Tune any four of your favorite stations just by pushing a button! Gets your program "right on the head" each time. You'll like this 1941 Piano-Key Automatic Push-Button Tuning that's so easy to set and operate.



with "MAGNA-BEAM"



R.C.A. LICENSED

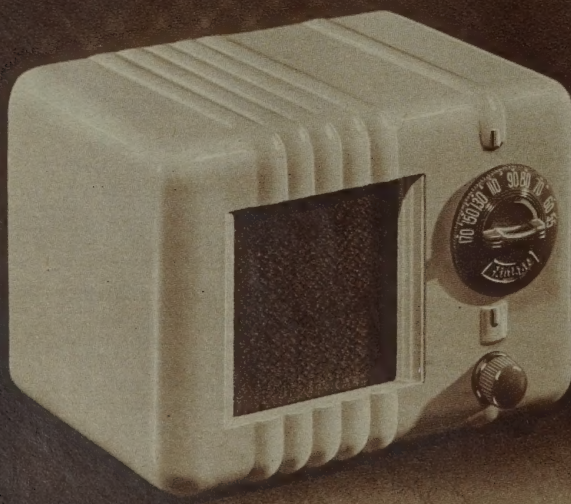
FEATURES:

- Built-in "Magna-Beam"
- PM Dynamic Speaker
- Full-Acting A.V.C.
- 1½ Watts Output
- Tunes Police Calls
- Plays Anywhere

We point with pride to the sparkling plastic beauty of this compact **Knight 5**. It is a real gem, with its softly-rounded lines, its smart louvre-grille and its cleverly shaped dial. To add to its beauty and convenience, there's an attractive plastic-molded carrying handle. The **Knight 5** is available in Ivory finish or in Walnut-Brown. Size: 8" long, 4¼" deep, 4¾" high.



AMERICA'S
IDEAL
"UTILITY"
RADIOS



R.C.A. LICENSED

FEATURES:

- Dynamic Speaker
- Built-in Antenna
- Gets Police Calls
- Plays Anywhere
- Smart Cabinet
- Weighs only 4 lbs.

Striking Cabinet Design. A truly beautiful example of midget cabinet styling. Molded of plastic material along smooth, simple lines. Big open grille provides enlarged baffle area, greatly enriching the tonal quality. Cabinet is available either in Ivory finish or in attractive Walnut. Size is only 6½" wide, 4¾" deep, and 4½" high. Weighs only 4 lbs.

Knight 5 TUBE AC-DC SUPERHET

Here's a happy formula for real radio pleasure—the ideal mating of bell-toned performance with an eye-taking new kind of midget radio beauty. You get versatile A.C.-D.C. operation from five tubes (including rectifier) that work like seven. You get big-set tonal beauty, Superhet selectivity and sensitivity, and the latest in plastic-molded beauty. It's the ideal "utility" radio for living-room, bedroom, den, dormitory, or office use. It's a big 1941 Radio Value!

Plays Anywhere. You can play the **Knight 5** wherever there's electric current available. Works either on 110-120 volts 50-60 cycles A.C. or 110-120 volts D.C. (also on 220 volts with adapter listed below). What with its smart handle and built-in loop aerial, you can carry and play the **Knight 5** almost anywhere!

Built-in "Magna-Beam." No more aerial or ground connections to worry about. Has the new "Magna-Beam" aerial built right in—and that means you just plug in like any appliance—and play perfectly!

Easy To Tune. There's a new and novel type of tuning dial used in the **Knight 5**. Calibrations are arranged in half-moon effect, and station logging is easily accomplished by means of an easy-grip molded tuning knob. Extended tuning range covers 535-1720 K.C., including all standard American and Canadian Broadcast stations as well as the popular 1712 K.C. Police Channel.

1941 Circuit Design. Licensed by the famous R.C.A. laboratory, the circuit of the **Knight 5** brings you radio engineering's finest developments. Uses the latest type tubes as follows: 12A8GT as Conv.-Osc. (dual-purpose); 12K7GT as I.F. Amp.; 12GT6T as Diode Det.-A.V.C.-1st Audio (triple-purpose); 35L6GT as Audio Output; 35Z5GT as Rectifier. This latest tube line-up assures higher gain and bigger power output.

Extra-Value Features. The **Knight 5 A.C.-D.C.** has full A.V.C. action to assure uniform volume and freedom from fading. Incorporates the latest type P.M. Electro-Dynamic speaker with exceptional volume-handling capacity. Develops surprising 1½ watt power output. Quality components are used throughout.

Sparkling Tone Quality. Few compact receivers can match the **Knight 5** for tonal beauty. It is amazingly free from distortion and "tinniness". Rich, full-bodied tone quality is always yours to enjoy.

Knight A.C.-D.C. 5 Complete. The **Knight 5** Tube A.C.-D.C. Superhet is offered in the beautiful cabinet illustrated above, complete with tubes. For operation from 110-120 volts, 40-60 cycles, A.C. or D.C. Shipping weight, 6 lbs.

B10507. Walnut.

Value, \$13.95.

NET PRICE, EACH \$8.30

YOUR PRICE, LOTS OF 3, EACH....

B10508. Ivory Finish.

Value, \$14.95.

NET PRICE, EACH \$8.75.

YOUR PRICE, LOTS OF 3, EACH.....

B9144. 220 Volt Adapter for above set. NET...\$9.50

\$7.90

\$8.30

4 TUBE "Tiny Knight"

A favorite for use as the perfect "extra" radio. This 4 Tube (including rectifier) "**Tiny Knight**" A.C.-D.C. radio is so small that you can hold it in the palm of your hand—so low-priced that anyone can afford it—and so cleverly engineered that in power output and in performance it is equal to models many times its compact size. It's really an astonishing performer.

Plays Anywhere. The "**Tiny Knight**" 4 is outstanding for its unusual versatility. You can carry it and play it wherever 110 Volt, 50-60 cycles A.C. or D.C. current is available. It's so small you can pack it into any size suit-case or overnight bag and take it along when you travel. A built-in 20 foot aerial wire permits instant operation. Enjoy fine radio entertainment wherever you go. Just plug in and play perfectly!

Powerful New Circuit. An exceptionally efficient R.C.A. licensed TRF circuit accounts for the performance of the "**Tiny Knight**" 4. The latest type tubes are used as follows: 12K7GT as R.F. Amp.; 12J1GT as Det.; 50L6GT as Audio output; and 35Z5GT as Rectifier. Every tube works, contributing to strong, thoroughly enjoyable reception. The 50L6GT Output stage develops an undistorted output of 1.2 watts, and achieves strong volume seldom found in compact sets. Both voice and music are delightfully re-created through the efficient P.M. Dynamic speaker. The use of the efficient 150 mil type tubes completely eliminates ballasts and heater cords.

New Easy-To-Tune Dial. The large molded dial of the "**Tiny Knight**" 4 is clearly marked and easy to operate. Calibrations in kilocycles are large and easily legible, covering an extended range of 535 to 1720 kilocycles for reception of all standard Broadcast programs plus many Police calls. You'll like the way this tiny receiver picks up programs from near and far, and brings them to you in a thoroughly enjoyable manner. Tone quality, power output, and sturdy dependability have not been sacrificed for price. You get the kind of reception you'd expect only from much larger sets.

Set Complete. The "**Tiny Knight**" 4 tube A.C.-D.C. receiver is supplied complete with tubes as described. For 110 volts, 50-60 cycles, A.C. or D.C. Shpg. wt.; 5 lbs. See cabinet description at left.

B10509. Walnut.

Value, \$8.45.

NET EACH, \$5.30.

NET, LOTS OF 3, EACH.....

B10510. Ivory Finish.

Value, \$9.45.

NET EACH, \$5.70.

NET, LOTS OF 3, EACH.....

\$5.10

\$5.50

OUTSTANDING RADIO BUY!



Knight 5 TUBE 2 BAND^{AC}_{DC} SUPERHET

What a Radio Value this is! You've never before been able to buy a quality Two-Band A.C.-D.C. radio at so low a price! Check what you get: powerful Short-Wave Reception—versatile A.C.-D.C. operation—big power—built-in "Magna-Beam" loop—a lovely plastic-molded cabinet that's a real beauty—all at a price you won't be able to match anywhere else. It's a typical example of ALLIED'S value-giving!

Short-Wave Reception. Enjoy all the thrills of dependable Two Band radio reception! Not only do you enjoy fine reception of all American and Canadian regular Broadcast stations on 540 to 1630 K.C., but you get exciting Short-Wave entertainment on the 2.8 to 6.5 M.C. range. Brings you the most important broadcasts. And every program is easy to tune with the big 3" x 4" Airplane Dial that's clearly calibrated for each band. You'll like the way this compact performer picks up every program you want.

A.C.-D.C. Versatility. Works equally well on 110 volts, 40-60 cycles A.C. or 110 volts D.C. (Can be played from 220 volts with adapter listed below.) Compact—so you can carry it anywhere and play it perfectly wherever there's electric current. The built-in "Magna-Beam" lets you plug the set in anywhere and play it instantly—with no need for aerial or ground. Makes the Knight 5 (with rectifier) the ideal utility or "personal" radio, for home, office, or traveling. You'll want to take it along wherever you go.

Superhet Power. The R.C.A. and Hazeltine licensed circuit of the Knight 5 gives you the latest developments from these great labs. Uses the latest and most efficient tubes as follows: 12SA7 as Conv.-Osc.-Mixer (dual-purpose); 12SK7 as I.F.; 12SQ7 as Det.-A.V.C.-1st Audio (triple-purpose); 50L6GT as Beam-Power Output; 35Z5GT as Rect. Multi-purpose tubes mean extra power, extra sensitivity and bigger distance reach. Finest quality component parts are used throughout for greater operating dependability.

Thrilling Tone. The Beam-Power output stage develops a full 1½ watts undistorted output—more than you'll find in many five and six tube radios. This large volume is ably handled by the heavy-duty 5-inch Dynamic speaker. Careful matching of speaker to audio circuit results in a faithful clarity and fidelity that you'd expect only in much higher-priced sets. No matter what program you tune, you'll appreciate the tone of the Knight 5.

All These "Extras". Includes Automatic Volume Control—prevents fading—keeps volume uniform on all programs. Includes provision for connecting outside aerial where long-distance reception or stronger Short-Wave is desired.

1941 Styling. There's real eye-appeal in the simple design of the plastic-molded table model cabinet of the Knight 5. All its lines are softly curved and enhanced by the sweeping louvre grille openings and incised front lines. The cabinet is available in a choice of smooth Ivory, gleaming Mahogany or sleek Black. Size: 12" long, 7¼" high, 7" deep.

The Knight 5 Complete. Supplied complete with tubes, exactly as described above. For operation from 110 volts, 40-60 cycles A.C. or D.C. Shpg. wt., 10 lbs.

B10533, Black.
Value, \$14.50.
NET EACH
\$8.15.
LOTS OF
3, EACH

\$775

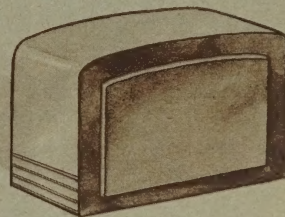
B10534, Mahogany.
Value, \$16.95.
NET EACH
\$9.15.
LOTS OF
3, EACH

\$865

B10535, Ivory.
Value, \$18.95.
NET EACH
\$10.15.
LOTS OF
3, EACH

\$965

B9144, 220 Volt Adapter for above sets. NET 59c



BUILT-IN "MAGNA-BEAM"

No more nuisance with aerials or trailing ground wires. The built-in "Magna-Beam" loop aerial eliminates need for both aerial and ground in average location. Just plug in like any electric appliance and enjoy perfect reception from anywhere. You'll like this improved 1941 convenience feature. (There's also provision for attaching outside aerial when stronger Short-Wave or long-distance reception is desired.)

FEATURES:

- Tunes Short-Wave
- Big Airplane Dial
- 5-inch PM Speaker
- Full-Acting A.V.C.
- 1½ Watts Output
- Plays Anywhere

R.C.A. & Hazeltine Licensed.



... IT'S THE

What is the AMERICAN WAY? . . . It is a way of life . . . a way of fellowship and humanity . . . of decency and honesty. It is a way that has brought to us Americans an ever-increasing abundance of the better things of life. It is a way of doing business, too . . .

We believe in the *American Way* of doing business. We have believed in it ever since we first began in the early days of radio. Now, as then, we are dedicated to its spirit, pledged to serve to our utmost, the American radio buyers to whom we sell.

Because we believe that a business can serve best only when its interests and skill are specialized, we have made *RADIO* and *RADIO* alone our sole concern. We have stuck to our business as 100% Radio Specialists. We think that is why thousands of radio buyers have made us first choice wherever high-grade radio equipment, maximum value, and efficient service are required.



American Way FOR US!

Today, we here at *ALLIED RADIO*, banded together in the largest exclusive radio business of its kind in the world, re-dedicate ourselves to these time-tested principles:

FIRST—Our high standards of quality are your assurance that you can buy with confidence . . . that everything you order from us will meet the most exacting standards for performance and dependability.

SECOND—Our low prices always assure you of fullest value for your money. You get more, save more, profit more on every purchase.

THIRD—Our service lives up to its reputation for promptness and care. We save you time and worry. Our central location and efficient shipping methods mean that your orders are delivered quickly and safely.

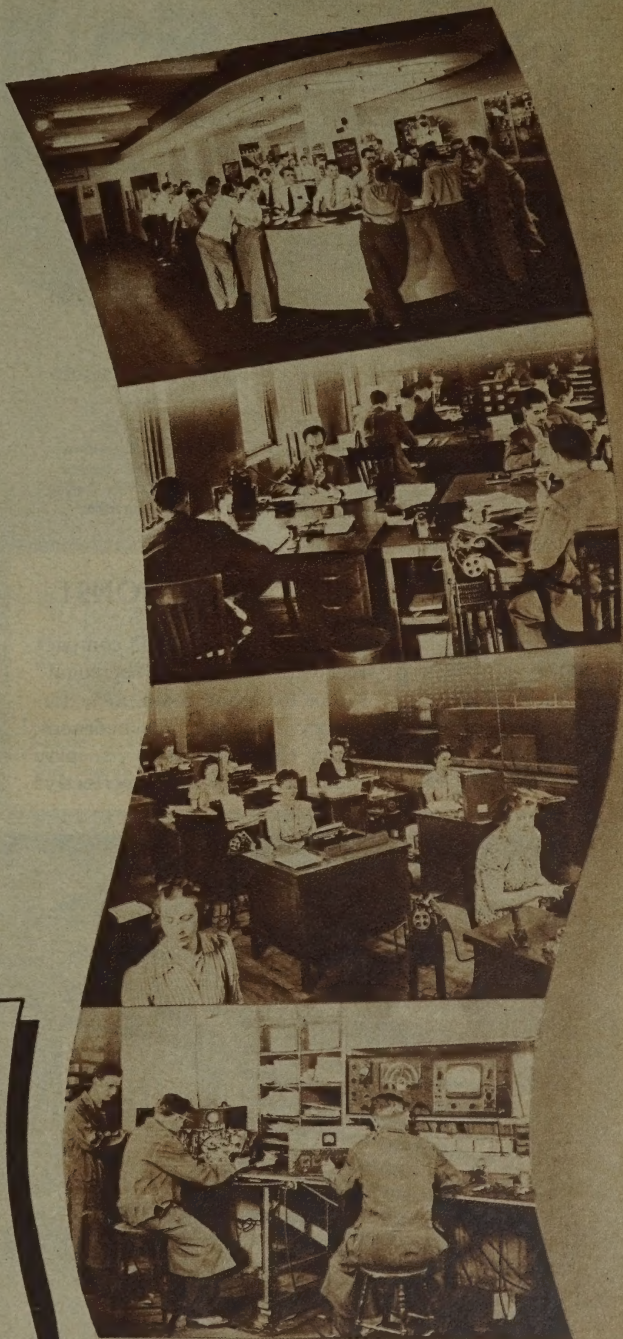
In every field of radio, the *ALLIED* Catalog is recognized as the foremost Buying Guide. Follow the lead of thousands of satisfied radio buyers—make *ALLIED* your *First Choice*, too!

Guarantee

WE GUARANTEE 100% VALUE IN PRICE, QUALITY, AND SERVICE

Every item in our catalog is guaranteed to conform exactly to the description and illustration. We guarantee that our merchandise conforms to the standards of the Radio Manufacturers' Association and will perform in the manner intended for such apparatus. Any merchandise that does not so operate, if returned at once, will be promptly adjusted by exchange, repair, or refund.

ALLIED RADIO CORPORATION



Serving You at
**ALLIED—Scenes at
the 100% Radio House**



R.C.A. &
HAZELTINE LICENSED

The lovely streamlined plastic cabinet of the **Knight 5** is months-ahead in styling. Its smooth lines, its louvre-type speaker grille (acoustically correct), and its rich black ebony finish will appeal instantly to every taste. Compactly designed; Size: 9 1/4" wide, 6 1/4" high, 5" deep.

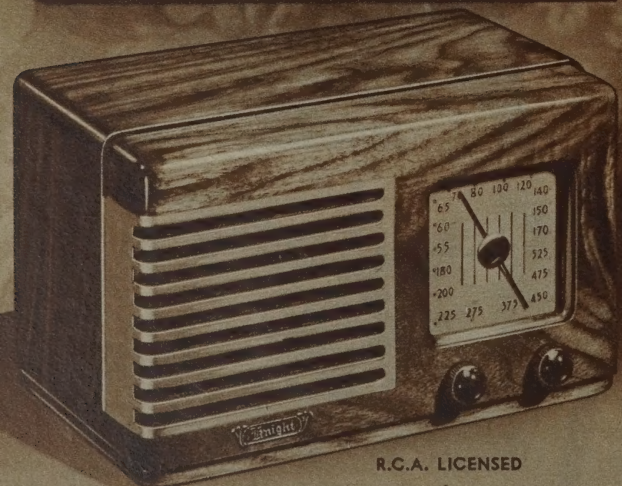
FEATURES:

- Foreign Reception
- Full A.V.C. Action
- Beam Power Output
- 5" P.M. Speaker

PERFECT RADIO COMPANIONS!



These new **KNIGHT** compact receivers are the ideal "personal" radios for living-room, den, dormitory, kitchen, or bedroom. Carry them anywhere . . . play them anywhere . . . perfectly!



R.C.A. LICENSED

FEATURES:

- Built-in "Magna-Beam"
- Full A.V.C. Action
- New Pearloid Dial
- Tunes Police Calls
- P.M. Dynamic Speaker
- Latest Superhet

This charming, compact table cabinet—made of solid walnut—represents tasteful modern styling at its best. Smoothly rounded corners, square dial face with unusually legible calibrations, novel speaker grille, and handy tuning controls furnish a wonderful combination of striking appearance and greater operating convenience. Size: 9 1/4" long, 5 1/4" high, 6" deep—just right for bookcase, desk, end-table, or shelf. The **Knight 5** is right at home . . . wherever you put it.

Knight 5 TUBE 2 BAND AC-DC SUPERHET

See the beauty of this new **Knight 5** tube (including rectifier) Superhet—hear its wonderfully realistic tone quality—thrill to its powerful 2-band reception—and you'll never believe that less than ten dollars could buy so much radio! Consider, too, its advanced circuit features, its sturdy dependability, its excellent workmanship throughout—and you'll agree that this new compact receiver sets the pace for radio value.

Foreign Reception Too! In addition to wonderful coverage of all standard Broadcast programs, the **Knight 5** brings you all the thrills of short-wave radio. On the 16 to 49 meter band (5.65-17.1 M.C.) you can pick up the news in the making, as well as interesting short-wave entertainment from distant lands. On the standard Broadcast band from 545 to 1730 kilocycles you can tune all of your favorite American and Canadian programs, plus many Police calls. The big full-vision 2 1/2" x 3 3/4" Airplane Dial makes tuning a pleasure on either band. No other radio on the market offers you dependable Two Band radio reception at so amazingly low a price.

Plays Anywhere. The **Knight 5** operates with equal efficiency from 110 volts, 40-60 cycles A.C. or 110 volts D.C. Or, with the adapter listed below, it will also perform on 220 volts A.C. or D.C. Handy aerial wire on attached antenna hank provides suitable antenna. Just plug in the line cord and the **Knight 5** is ready to give you enjoyable radio performance. There's nothing like this model for versatility.

New Superhet Circuit. You get all the advantages of Superhet selectivity and dependability from the new R.C.A. and Hazeltine licensed Superhet circuit of the **Knight 5**. Employs new 150 mil tubes for extra efficiency; does away with ballast tube or line cord resistor. The powerful 5 tube dual waveband circuit uses 12A8GT Conv.-Osc. (dual-purpose); 12SK7 I.F.; 12SQ7 triple-purpose Det.-A.V.C.-1st Audio; 50L6GT Beam-Power Output; 35Z5GT rectifier. This tube combination means greater efficiency and better performance.

Extra Value Features. Full Automatic Volume Control maintains uniform volume level and prevents fading; Beam Power Output provides plenty of volume for beautiful reproduction of all programs; full 5-inch P.M. Dynamic speaker gives you better tone quality; rubber-mounted tuning condenser and quality component parts throughout increases circuit stability. You'll congratulate yourself on the purchase of this fine performer that brings you enjoyable radio reception at a price you can afford.

Set Complete. The **Knight 5 Tube 2-Band A.C.-D.C.** Superhet is supplied in the graceful ebony black plastic cabinet described above at left. Complete with tubes. For operation from 110 volts, 40-60 cycles, A.C. or D.C. Shpg. wt., 8 lbs. Code: CLEAR.

B10536, Value, \$17.95.

NET PRICE EACH, \$9.85.

YOUR PRICE, LOTS OF 3 EACH

B9144, 220 Volt Adapter. **NET** **59c**

\$9.25

Knight 5 TUBE ^{AC} _{DC} SUPERHET

There's an air of distinction about this new 1941 **Knight 5** Tube (including rectifier) Superhet. In every detail it represents the kind of workmanship you'll be pleasantly surprised to get in a compact radio set so low a price. And because of splendid design and careful engineering, you get better performance, finer tone quality, and more pleasing appearance. Here's the well-built set anyone can afford—the perfect "personal" radio for every home or office.

Plays Anywhere. You can carry the **Knight 5** from room to room and plug it in for instant performance. The new built-in "Magna-Beam" antenna banishes trailing aerial and ground wires forever, and gives you more efficient signal pick-up; increases signal strength on both local and distant programs. The **Knight 5** operates equally well from 110 volts, 40-60 cycles A.C. or D.C. (Also operates from 220 volts A.C. or D.C. with adapter listed below.) Here's real versatility in a completely self-contained receiver—as easy to set up as your electric toaster or any ordinary electric appliance!

Latest Superhet Circuit. You'll enjoy thrilling reception of your favorite American and Canadian stations. Tuning range covers 535-1720 K.C. for all standard Broadcast programs plus many Police calls. The powerful R.C.A. and Hazeltine licensed Superhet circuit offers you every improvement from the laboratories of the world's foremost engineers. Extra efficiency is furnished by the use of latest tube types: 12A8GT as Conv.-Osc. (dual-purpose); 12K7GT as I.F. Amp.; 12Q7GT as triple-purpose Diode Det.-A.V.C.-1st Audio; 35L6GT as Power Output; 35Z5GT rectifier. This splendid tube combination makes the **Knight A.C.-D.C. 5** the equal of many higher-priced six and seven tube sets.

Sparkling Tone Quality. Enjoy full-voiced reproduction of every program! The new P.M. Dynamic speaker of the **Knight 5** provides better tone quality than you'd imagine possible from a compact table-model receiver.

Extra Features. Volume is maintained at a uniform level and fading is prevented by means of full-acting Automatic Volume Control. Full 2 Watt output furnishes extra strength for better reproduction of voice or music. The big Pearloid Airplane Dial is always easy to see and easy to tune. Carefully selected component parts add to stability of performance. You couldn't ask more of any compact set!

Set Complete. The **Knight 5 Tube A.C.-D.C.** Superhet is supplied complete with tubes, in the solid walnut cabinet described at left. For operation from 110 volts, 40-60 cycles, A.C. or D.C. Shpg. wt., 6 lbs. Code: HAVEN.

B10516, Value, \$18.95.

NET PRICE, EACH, \$10.35.

YOUR PRICE, LOTS OF 3, EACH

B9144, 220 Volt Adapter. **NET** **59c**

\$9.95

Knight 6 TUBE 2 BAND AC-DC SUPERHET

Here's a refreshing new note in radio—a powerful 6 Tube (including rectifier) model in a compact plastic molded cabinet that will captivate you the minute you see it! Here's performance that can't be beat, beauty that can't be matched, tone that can't be surpassed in any table model set at the price. Yet with all its features, this **Knight 6** Tube 2-Band A.C.-D.C. Superhet is priced much lower than you'd guess.

Tunes Foreign Stations. Hear the news from abroad—keep up with events of the day! Tuning range covers all standard Broadcast stations plus exciting foreign short-wave programs. Tunes 540-1600 K.C. and 5.7 to 18.3 M.C. You get better reception on both bands because of the powerful Superhet circuit with its advanced new features.

Plays Anywhere. The **Knight 6** operates practically anywhere that electric current is available. Performs with equal efficiency from 110 volts, 40-60 cycles, A.C. or D.C.; also operates from 220 volts A.C. or D.C. with adapter listed below. You can easily take the **Knight 6** anywhere, and it will operate perfectly the minute you plug in.

Built-in "Magna-Beam." Incorporates the wonderful new built-in antenna that does away with trailing wires and assures exceptionally fine performance on both wave-bands.

R. F. Stage. An important 1941 radio feature found only in the higher priced sets. Applied on Broadcast band, it increases sensitivity enormously; brings in more stations; reduces background hiss and noise; contributes to better performance.

Superhet Circuit. The **Knight 6** 2 Band A.C.-D.C. is built around an exceptionally well-engineered R.C.A. and Hazeltine licensed circuit incorporating new and improved features for greater distance-reach and bigger power. Has features usually found only in expensive sets. Latest efficient tubes are employed as follows: 12SK7 R.F. Amp.; 12SA7 Mod.-Osc. (dual-purpose); 12SK7 I.F.; 12SQ7 Det.-A.V.C.-1st Audio (triple-purpose); 50L6GT Power Output; 35Z5GT rectifier. Added features include: full Automatic Volume Control for uniform volume level; full 1.5 watts output; rubber-mounted tuning condenser; finest component parts. The big 5-inch P.M. Dynamic Speaker provides splendid reproduction of every program. You'll enjoy the power, the beauty, the depth of tone you get in the **Knight 6**.

Set Complete. Supplied complete with tubes and built-in "Magna-Beam." For operation from 110 volts, 40-60 cycles; A.C. or D.C. Shpg. wt. 12 lbs.

B10555. In Mottled Walnut Cabinet.
Value, \$23.50.

NET EACH, \$12.95.

YOUR PRICE, LOTS OF 3, EACH.....

\$12³⁵

B10556. In Ivory-Onyx Cabinet.
Value, \$25.95.

NET EACH, \$14.45.

YOUR PRICE, LOTS OF 3, EACH.....

\$13⁷⁵

B9144. 220 Volt Adapter. NET.....

59c

Knight 5 TUBE AC SUPERHET

You'll always enjoy this new **Knight 5** Tube (including rectifier) A.C. Superhet. You'll never tire of its appearance, its tone quality, its sterling performance. It's the kind of set that's been needed for years—a dependable table model receiver with all the features of big, expensive sets—at a price anyone can pay. And it can't go out of date because it has all of the worthwhile features of 1941 radio, plus connection for Television and Frequency-Modulation adapters. It's one of the finest of all 1941 table model receivers.

Push-Button Tuning. You can tune any of four favorite stations in a flash simply by pressing the smooth-acting automatic tuning buttons. And for manual tuning we've included a generous-sized 5¼" x 4¼" Pearlloid airplane dial with large, clear calibrations and easily visible needle indicator. No easier tuning is available in all radio today.

Built-in "Magna-Beam." No aerial or ground is needed. You can forget the annoyance of trailing wires and makeshift connections. The "Magna-Beam" antenna built into the cabinet assures better signal pickup from every station. Here's just another proof of extra value.

New Superhet Circuit. Licensed by R.C.A., the powerful new Superhet circuit of the **Knight 5** embodies the latest developments in receiver design. Tubes used are as follows: 6A8G as Conv.-Osc. (dual-purpose); 6K7G as I.F. Amp.; 6Q7G as Diode Det.-A.V.C.-1st Audio (triple-purpose); 6K6G Power Output; and 80 rectifier. This efficient 5 tube 1941 Superhet circuit has been planned for longer distance-reach and bigger power. Tuning range covers 535-1720 K.C. for fine reception of all American and Canadian standard Broadcast programs plus many police calls.

Phonograph Connection. You can quickly attach any record player to the **Knight 5** and enjoy the finest recorded entertainment, beautifully reproduced through the new 5¼" Electro-dynamic Speaker. (See our listing of record players and record-playing accessories on pages 28-30.) Also has connection for Television or Frequency-Modulation attachments.

Added Features. Full 2½ Watts output is developed from the 6K6G Power Output stage—more than enough for splendid re-creation of your favorite programs. There's a real tonal treat awaiting you in this outstanding **Knight 5** receiver. Full Automatic Volume Control maintains constant, unvarying volume level on all Broadcast programs.

Set Complete. The **Knight 5** Tube A.C. Superhet is supplied complete with tubes and built-in "Magna-Beam," in cabinet described at right. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 13 lbs. Code: VERSE.

B10517. Value, \$27.50.

NET EACH, \$14.95.

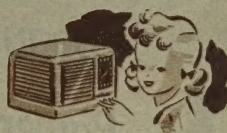
YOUR NET PRICE, LOTS OF 3, EACH.....

\$14³⁵

FEATURES:

- "Magna-Beam"
- 2-Band Reception
- 5" P.M. Speaker
- Full A.V.C. Action
- New R.F. Stage

An unusually attractive cabinet has been designed especially for the **Knight 6**—a beautifully molded plastic cabinet available in either mottled Walnut or rich Onyx. Has a gleaming, jewel-like beauty. Features new louvre-type speaker grille and big illuminated dial. Size: 12" wide, 8" high, 6½" deep.



No more fuss ... no more bother ... with the new built-in "Magna-Beam" antenna. Just plug in ... and these radios are always ready to play.

It's easy to tune these new **Knight** receivers. Big full-vision dials are clearly calibrated and easy to read—a child can tune them perfectly!

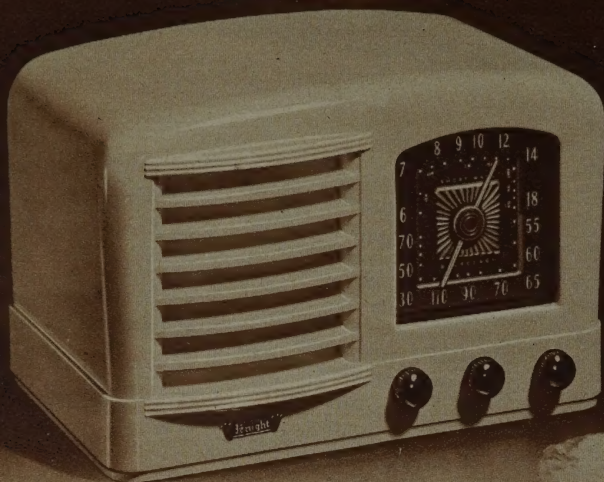


R.C.A. LICENSED

FEATURES:

- Push-Button Tuning
- Big Slide-Rule Dial
- 5½" Dynamic Speaker
- Phono Connection
- Full A.V.C. Action

The lovely cabinet above houses the new **Knight 5** Tube A.C. Superhet. Beautifully designed with rounded corners and new sweep-end effect. Of select walnut veneer with richly-grained contrasting bands. Has neat one-piece escutcheon and conveniently placed controls. Measures 16" wide, 8½" high, 7½" deep. An exceptionally good-looking receiver that will fit perfectly into any setting.



New Cabinet Beauty. The charming new plastic-molded cabinet of this new Knight 6 will win widespread approval. It is smartly styled and a fit companion for the excellent radio it houses. Has subtly arched top, softly rounded lines and curved louvre-type grille. Available in two attractive colors—in smooth, soft Ivory, or in rich, gleaming Mahogany. Size: 12" long, 8" high, 7" deep.

FEATURES:

- Foreign Reception
- Big Airplane Dial
- Built-in Aerial
- 2 Watts Output
- Bass Compensation
- Full-Acting A.V.C.

R.C.A. & HAZELTINE LICENSED



Beautiful Plastics!
Powerful Reception!
Amazing Values!



R.C.A. LICENSED

FEATURES:

- With Push-Button Tuning
- With "Magna-Beam" Aerial
- P.M. Dynamic Speaker
- 2 Watts Power Output
- With Full-Acting A.V.C.
- Giant Molded Roto-Dial
- Tunes Police Calls

Style Sensation. Here's a masterpiece in streamlined styling. You've never seen such beauty, such lines, such flawless plastic-molding. You've got to see this exquisite cabinet to appreciate it fully. Has a sweeping louvre grille design and attractive push-button inset. Available in a choice of soft Ivory finish, or smooth Walnut. Size: 11 1/4" long, 6 3/4" high, 6 1/2" deep. You'll be proud of this distinctive plastic design that sets a new note in radio cabinet styling.

Knight 6 TUBE 2 BAND AC SUPERHET

One of the most powerful plastic radios ever built. It's smart-looking and quality-built—and it brings Foreign reception right into your home—yet it costs far less than you'd expect to pay for such a set! Here's one of the finest radio values we've ever been able to offer our customers. You'll be making a wise move when you select this new 1941 Knight 6.

Two-Band Range. Keep right up with foreign affairs—direct. You get dependable and world-wide reception because the Knight 6 (including rectifier) tunes 5.7-18.1 M.C. to bring you all of the most popular Foreign and domestic Short Wave programs. On 540 to 1730 K.C. you can tune all American and Canadian standard Broadcast stations from coast-to-coast. You'll find reception on each band powerful and dependable. The big 4" x 4" Airplane Dial is a "dandy" for easy tuning! It shows each band clearly marked so you know at a glance just where you are tuning at all times.

Powerful Superhet. The R.C.A. and Hazeltine licensed circuit of the Knight 6 reflects every new engineering advance. Uses the latest tube types: 6SA7 as Det.-Osc.; 6SK7 as I.F.; 6SK7 as 1st Audio; 6SQ7 as 2nd Det.-A.V.C.; 6K6G as Power Output; 5Y3G as Rect. An amazing output of 2 watts is developed by this efficient circuit. Sensitivity and selectivity are unusual for a radio of this size at this price. You have only to tune the Knight 6—and you'll realize how far ahead it is.

Extra Advantages. Automatic Volume Control is incorporated to prevent fading and to keep volume uniform on all programs. Built-in antenna wire is furnished on convenient hank so that set can be plugged in and played anywhere. Outside aerial connection is also provided for use when stronger Short Wave or long-distance reception is desired. You'll find these features add to your radio enjoyment in the convenience and better reception they make possible.

Superb Tone Quality. You'll think you're listening to an expensive console model when you first hear the Knight 6. The full output of the audio circuit is brilliantly handled by the heavy-duty 5-inch Dynamic Speaker. And special Bass Compensation means that the proper balance between bass and treble is always maintained. You'll get a tone thrill out of the Knight 6 that will make you proud to own it. For those who desire good tone quality above all else, but who do not want to pay a high price, we recommend this model sincerely.

The Knight 6 comes complete as illustrated and described above. With tubes. For operation on 110 volts, 60 cycles A.C. Shpg. wt., 13 lbs.

B10537, Mahogany Model.

Value, \$24.95

NET PRICE EACH, \$13.65

NET PRICE, LOTS OF 3, EACH

\$12.95

B10538, Ivory Model.

Value, \$28.50

NET PRICE EACH, \$15.25

NET PRICE, LOTS OF 3, EACH

\$14.45

Knight 5 TUBE AC SUPERHET

We've scored a real hit with this style and performance champion! Easy tuning?—here it is—Push-Buttons for favorite stations, big Roto-Dial for regular manual logging. Versatility?—certainly—works on A.C. or D.C. with the same fine efficiency. Power and Tone?—just check against any set in this price range—you'll find none to equal it. Look?—you can see that at a glance! And the price?—well—judge for yourself—where can you get a better radio value?

Plays Anywhere. Here's the set you can take anywhere, play anywhere. Has the 1941 improved built-in "Magna-Beam" loop aerial right in the cabinet. No aerial or ground needed—just plug in and play! Operates with equal efficiency from 110-120 volts, 40-60 cycles A.C. or from 110-120 volts D.C.—(works on 220 volts with adapter listed below). Take this ideal "companion" radio everywhere; play it perfectly anywhere! You've rarely seen such a versatile and powerful performer.

Push-Button Tuning. Tune any four of your favorite stations just by touching a button. Easily adjusted from the front; works right on the head each time. Regular manual tuning is almost as easy, too, with the giant 5-inch plastic Roto-Dial. Gets all of your stations in a jiffy. Tuning range covers 535-1720 K.C.; includes the entire American and Canadian Broadcast band and the popular 1712 K.C. Police Channel.

Power Plus! The R.C.A. licensed circuit of the Knight 5 (including rectifier) actually gives you seven tube power and efficiency. New 150 mil tubes (no ballast or heater cord) are used: 12A8GT as Conv.-Osc. (dual-purpose); 12K7GT as I.F.; 12Q7GT as Det.-A.V.C.—1st Audio (triple-purpose); 35L6GT as Power Output; 35Z5GT as Rect. Note the multi-purpose tubes—they mean more power, more sensitivity, more radio enjoyment. This circuit gets results—you'll be amazed at the power output and tone quality. You can depend on the Knight 5 for consistently reliable and enjoyable performance.

And You Get full Automatic Volume Control for uniform, smooth volume on all programs. The surprising 2 watts output of the circuit is magnificently handled by the special 5-inch P.M. Dynamic speaker with extra-heavy magnet, and the tone you get is about the purest, the most natural you've ever heard in a compact radio. You'll never tire of the fine reproduction of this dependable radio that gives you the most for your money. There's real quality in every inch of this new Knight 5!

Knight 5 Complete. Supplied complete with tubes; as illustrated at left. For operation from 110-120 volts, 40-60 cycles A.C. or D.C. Shpg. wt., 8 lbs.

B10511, Walnut.

Value, \$17.50

NET EACH, \$9.95

NET, LOTS OF 3, EACH

\$9.45

B10512, Ivory Finish.

Value, \$18.95

NET EACH, \$10.60

NET, LOTS OF 3, EACH

\$10.10

B9144, 220 Volt Adapter for above sets. NET, 59c

1941's SENSATIONAL RADIO VALUE!



Knight 7 TUBE 2 BAND AC SUPERHET

- Foreign Reception • Bass Compensation • Phono & F-M Connection • With R.F. Stage
- With Tone Control • 6" Dynamic Speaker • Ready for Television • 5 Watts Output

We've sold thousands of fine **Knight** table model radios, but we've never before been able to offer you more value for your radio dollar than you get in this new **Knight 7** (including rectifier)! No other seven-tube table model today brings you so much quality, so many fine features, such faithful tone—plus Foreign reception—at so low a price! And we'll back up every claim we make for this wonderful 1941 model. We ask you to try it for yourself on our liberal Trial and Money-Back Guarantee (see page 13). You be the judge!

Foreign Reception. Get your world news at first hand! Tune overseas programs on the 5.65 to 18.1 M.C. Short Wave band. Brings you all the important Foreign and domestic Short Wave stations. And regular Broadcast reception of all American and Canadian stations, from coast-to-coast, is covered by the 540 to 1620 K.C. range. Everything of importance that's broadcast is yours to command—and yet the cost is no more than that of many ordinary 7-tube radio receivers.

Giant Airplane Dial. In addition to Automatic Push-Button Tuning (described at right), the **Knight 7** includes a new type of easy-tuning Airplane Dial; measures $7\frac{1}{2}'' \times 3''$, is clearly calibrated with separate, easy-to-read scales for each band. Fully illuminated; as you drive the free-swinging pointer, you know exactly which band and frequency you are tuning. There's nothing easier. And on regular Broadcast you can tune any six of your favorite stations instantly, just by touching a button.

1941 Superhet Masterpiece. For power and super-sensitivity, the **Knight 7** is unmatched at its price. The advanced Superhet circuit is licensed by R.C.A. and Hazeltine and uses the following tubes for powerful reception: 6SK7 as R.F. Amp.; 6SA7 as Conv.-Osc. (dual-purpose); 6SK7 as I.F.; 6SQ7 as Det.-A.V.C. (dual-purpose); 6SK7 as 1st Audio; 6K6GT as Power Output; 5Y3 as Rect. The amazingly efficient power stage develops 5 watts output—more than you will ever need for average requirements to give you perfect reception always.

R.F. On Each Band. Incorporates R.F. stage on both bands which increases sensitivity at least seven times, resulting in greater distance-reach, finer tone quality and freedom from background noises. Makes possible a new concept of noise-free powerful radio reception you will appreciate. This is a feature found only in the highest-priced quality radios—another proof of the extra-value you get in this new **Knight 7**.

Superb Tone Quality. Few table models can surpass the tone quality of the **Knight 7**. It brings you finer, more realistic reproduction with a new and thrilling richness and tonal depth. There's a reason for this tonal perfection. First, there's the wonderfully big output of the circuit; second, there's the new heavy-duty 6-inch P.M. Dynamic Speaker which handles the power effortlessly and re-creates each program with a thrilling life-like quality; and last—there's the continuously variable Tone Control and Bass Compensation (features found only in the finest sets) to insure constantly satisfying tone.

Every Useful Feature. You get more for your money when you buy the **Knight 7** because its fine circuit includes important extra-value features. There's Automatic Volume Control to prevent fading and to keep volume uniform on all programs. There's continuously variable Tone Control that lets you choose your own emphasis of bass or treble as desired. There's Bass Compensation that faithfully preserves the proper balance between treble and bass. There's a built-in Wave Trap circuit to prevent code interference from "spilling over" on Broadcast reception. There's provision for outside aerial when longer-distance reception is desired.

The Radio of Tomorrow. The **Knight 7** has provision for connecting Television or Frequency Modulation adapters. Same connection may be used for hooking up a Record Player. Use any of the Record Players shown on pages 28-30 with the **Knight 7**, and you'll get rich, faithful reproduction of your favorite records. You get more for your money in features, in performance—when you buy the **Knight 7**—the radio of tomorrow, here for you today!

Beautiful Table Model. The richly styled table model cabinet of the **Knight 7** is fashioned of selected walnut veneers in contrastingly grained effect. Ends are gracefully curved, and speaker grille is beautifully set off by simple bar design. The entire cabinet is lustreously finished—a thing of beauty you can be proud of. Size: $19''$ long, $9\frac{1}{4}''$ deep, $9\frac{1}{2}''$ high.

Set Complete. The **Knight 7** Tube 2-Band A.C. Superhet is offered complete with tubes in table model cabinet as illustrated and described above. For operation on 110 volts, 60 cycles, A.C. Shpg. wt., 20 lbs. Code: GLORY.

B10550.
Value, \$39.95.
NET EACH, \$20.95.
NET, LOTS OF 3, EACH, \$19.95

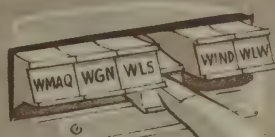
\$19.95

Each, in Lots of 3



WITH "MAGNA-BEAM"

The perfected 1941 "Magna-Beam" loop aerial is built into the **Knight 7**. That means you can place the set anywhere—just plug in—and play perfectly.



PUSH-BUTTON TUNING

New Piano-Key system of Automatic Tuning. Select any of your six favorite stations easily, instantly—just by touching a button. It's easy to set and operate—works perfectly and accurately every time!

R.C.A. & HAZELTINE
LICENSED



R.C.A. & HAZELTINE LICENSED

Distinctive Design. We've matched the fine performance of the Knight 6 with an appropriate table model cabinet of rich appearance. Only the finest highly-figured walnut veneer woods are used throughout. The contrasting-grained effect is truly striking. The top is softly curved at each end and the shaped speaker grille opening and dial frame harmonize exquisitely. You couldn't ask for a finer, more lustrous finish. Measures 14½" long, 9" high, 7½" deep.

FEATURES:

- Foreign Reception
- Slide-Rule Dial
- Full-Acting A.V.C.
- 2½ Watts Output
- 5" P.M. Speaker
- Bass Compensation



Built-in Aerial—
Place these sets anywhere—just plug in and play perfectly!

Good Looks!
Big Values!



R.C.A. LICENSED

FEATURES:

- "Magna-Beam" Loop
- Foreign Reception
- 5" P.M. Speaker
- 2 Watts Output
- Full-Acting A.V.C.
- Giant Airplane Dial

There's the skill of a masterful designer reflected in each line of this lovely table model cabinet. You have to see it in real life to appreciate its richness and quality. Choice walnut veneers are used with unusual skill. The cabinet ends are subtly formed and the speaker grille reflects an entirely new effect. The high finish of this model is typical only of the best cabinet craftsmanship. Measures 12¾" long, 7½" high, 6½" deep.

Knight 6 TUBE 2 BAND AC SUPERHET

You'd never expect to get so much radio at so low a price! Not one-band reception—but full Two-Band coverage, bringing you the thrill of foreign reception! Not just ordinary reception—but powerful 2½ watts output—superb tone and outstanding features that you'll find only in much higher-priced sets. And this Knight 6 (including rectifier) is long on looks, too—the kind of radio you'll be proud to call your own!

Foreign Reception. Keep up to the minute with foreign affairs—direct—from overseas. You have full command of the popular 5.7-18.1 M.C. Short-Wave Band that brings you all the important Foreign and domestic Short-Wave programs. And you tune powerful American and Canadian standard Broadcast stations on the 540 to 1730 K.C. range. You'll find reception on each band powerful and dependable.

Easy Tuning. There's nothing more simple to tune than the big 4" x 4" full-vision Airplane Dial. Each band is clearly calibrated in large numerals; the smooth Wave-Band Switch makes it easy to go from regular Broadcast to Short-Wave and return. And you'll want the convenience of the built-in aerial attached to a handy hank. It means you can play the Knight 6 anywhere, and play it instantly.

1941 Superhet. Licensed by R.C.A. and Hazeltine—the latest word in powerful radio design. Uses the newest tubes as follows: 6SA7 as Osc.-1st Det. (dual-purpose tube); 6SK7 as I.F.; 6SK7 as 1st Audio; 6SQ7 as 2nd Det.-A.V.C. (dual-purpose); 6K6G as Power Output; 5Y3G as Rect. The powerful output circuit delivers full 2½ watts output (you'd expect it only in larger sets). You actually get more than six-tube efficiency.

Quality Features. There's full-acting Automatic Volume Control to prevent fading and to keep volume steady on all stations. Has Bass Compensation to preserve the proper balance between bass and treble—you'll notice the difference the minute you begin listening. Only the finest of radio components are used throughout to insure consistently dependable reception.

Thrilling Tone Quality. You've never heard such perfect tone in a radio priced so low! The full 2½ watts output is powerfully handled by the special 5-inch P.M. Dynamic Speaker to bring you a tone thrill each time you turn the set on. Compare the tone of the Knight 6 with any radio in its price class. You be the judge! We know you have a real tone-treat coming!

The Knight 6 Tube 2 Band AC Superhet is offered as illustrated and described, complete with tubes. For operation from 110 volts, 60 cycles AC. Shpg. wt., 16 lbs. Code: VOCAL.

B10539, Value, \$31.50.
NET PRICE EACH, \$16.45.
NET PRICE, LOTS OF 3, EACH.....

\$1575

Knight 5 TUBE 2 BAND AC-DC SUPERHET

If you're looking for a grand radio companion—if you like the thrill of Foreign reception—if you're especially critical about tone quality—you'll choose this versatile and beautiful new 5 Tube (including rectifier) AC-DC model. Nothing has been sacrificed, either in design or craftsmanship, to bring you the finest radio of this type for the money.

Foreign Reception. Not just one band—not just ordinary reception—but two full wave bands! Treat yourself to powerful Short-Wave reception that really reaches out and brings you new listening thrills. Tune 5.65 to 18.3 M.C. for all the important Foreign and domestic Short-Wave programs. Get powerful reception of all American and Canadian regular Broadcast on 535 to 1720 K.C. (includes the popular 1712 K.C. Police Channel).

Giant Airplane Dial. Easy tuning? Well, here it is—made possible by one of the most legible and beautiful dials in all radio. It's big as life, easy to read, easy to tune on either band. You'll like this smooth-working tuning arrangement.

Perfect "Magna-Beam." You couldn't ask for a more convenient or versatile radio. Includes the new 1941 "Magna-Beam" built-in loop aerial. Permits you to place the set wherever you choose. All you have to do is plug in and play! And here's the last word in AC-DC convenience, too. Plays equally well on 110-120 volts, 50-60 cycles, AC or 110-120 volts DC (also works on 220 volts with adapter listed below).

Perfect Superhet. The powerful R.C.A. licensed Superhet circuit uses the latest matched tube types: 12SA7 as Conv.-Osc. (dual-purpose); 12SK7 as I.F.; 12SQ7 as Det.-A.V.C.-1st Audio (triple-purpose); 35L6GT as Power Output; 35Z5GT as Rect. This super-efficient circuit, using multi-purpose tubes, develops full 2 watts output, comparable to that of much larger, higher-priced sets. You get more for your money in this model.

Full-Acting A.V.C. means freedom from fading and uniform volume on all programs. Individual coils on each band insure maximum sensitivity and dependable tuning either on regular Broadcast or Short Wave.

Tone That Thrills. You'll always enjoy listening to the Knight 5. We've put special emphasis on bell-like tone quality and we've made it certain by using only the finest 5-inch P.M. Dynamic Speaker we could find. That means every program comes in with rich fidelity and a mellow clearness of tone that makes the Knight 5 an outstanding receiver.

Set Complete. The Knight 5 Tube 2 Band AC-DC Superhet is offered complete with tubes as illustrated and described. For operation from 110-120 volts, 50-60 cycles AC or 110-120 volts DC. Shpg. wt., 10 lbs. Code: GLOBE.

B10518, Value, \$24.95.
NET PRICE EACH, \$13.65.
NET PRICE, LOTS OF 3, EACH.....

\$1295

B9144, 220 Volt Adapter for above sets. NET.....59c

Kníght 7 TUBE 2 BAND AC SUPERHET

\$29⁹⁵

- Foreign Reception
- With Tone Control
- Airplane Dial
- 5 Watts Output
- 10" Dynamic Speaker
- Full-Acting A.V.C.
- With R.F. Stage
- F-M Connection

Each, in Lots of 3

Here's a value-giving 7-Tube Console Radio without a competitor! On every count, this **Kníght 7** (including rectifier) scores with the latest features—Foreign Reception—Automatic Tuning—Super "Magna-Beam"—beautiful tone, big power, and splendid appearance. It's an exciting new model with a performing ability you can't beat anywhere at the price!

Foreign Reception. Brings the world right into your home! You get not only powerful, enjoyable reception of all American and Canadian regular Broadcast stations on 540 to 1630 KC, but you also have at your command the most popular Foreign and domestic stations on the 5.65 to 18.1 MC Short-Wave band.

Super "Magna-Beam." The entirely new built-in aerial. Does away with aerial and ground wires. Just place the set where you want it—plug in and it plays perfectly! New Rotating principle lets you adjust the "Magna-Beam" for maximum signal strength. And there's the special built-in Electro-Static Shield, too, that means pure, undistorted tone and reduced man-made static even in noisiest locations.

Automatic Tuning. You can tune any of six favorite stations the easy-automatic "Piano-Key" Way. It's so easy—just tip the push-button with your finger—and there's your program, tuned right on the head each time! Easy to set; easy to use! You'll like the regular manual tuning, too. The big 7½" x 3" Airplane Dial, with clear scales for each band, finds your programs instantly.

Super-Sensitive Circuit. There's no finer 7-tube circuit built. It's a great 1941 Superhet packed with the latest features developed by the great R.C.A. and Hazeltine laboratories. Uses these new tubes: 6SK7 as R.F. Amp.; 6SA7 as Conv.-Osc. (dual-purpose); 6SK7 as I.F.; 6SQ7 as 2nd Det.-A.V.C. (dual-purpose); 6SK7 as 1st Audio; 6K6GT as Power Output; 5Y3 as Rect.

R.F. Stage. A wonderful 1941 feature—increases sensitivity at least seven times. Results in greater distance reach, finer tone and reduced interference. Reduces and eliminates background hiss and noise.

Ready for New Developments. The **Kníght 7** is ready for Television or Frequency Modulation whenever they come. Has connection for plugging in Television or F-M adapter. The same connection permits the attachment of a Record Player (see types described on pages 28-30) for additional enjoyment of phonograph records.

Magnificent Tone. If you're looking for that full richness and fidelity of tone; just the way it is when it leaves the broadcasting studio, you'll find it in the **Kníght 7**. It develops full five watts output which is beautifully handled by the heavy-duty 10-inch Concert-Dynamic Speaker. Continuously Variable Tone Control lets you emphasize bass or treble tonal ranges to suit your personal tastes. And to make thrilling tone doubly sure, there's Bass Compensation to preserve the proper balance between treble and bass. You'll be proud of the tone quality of the **Kníght 7**—and you'll enjoy it always.

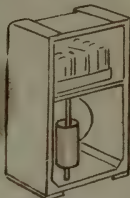
These Extra Features. Automatic Volume Control is incorporated to prevent fading and to keep volume uniform on all programs. Has R.F. on both bands for greater sensitivity and reduced interference. See full description of this feature at left. Wave Trap prevents code interference from spilling over on regular Broadcast.

Handsome 1941 Console. You'll like the pleasing lines, the fine woods, and the wonderful craftsmanship reflected in the beautiful console of the **Kníght 7**. Built of selected matched walnut veneers, it features an inclined instrument panel and softly rolled pilaster ends. The entire cabinet is hand-rubbed to a rich, lustrous finish. Size: 39" high, 26" wide, 12" deep. There is no finer console offered in any set at this price range.

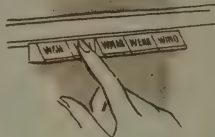
Kníght 7 Complete. The **Kníght 7** is offered in Console as illustrated, complete with 10" speaker and tubes. For 110 volts, 60 cycles AC. Shpg. wt., 59 lbs. Code: CROWN.

B10571. Value, \$59.95.
NET PRICE EACH, \$31.45.
NET, LOTS OF 3, EACH.....

\$29⁹⁵



Super "Magna-Beam" aerial built-in—can be "tuned" perfectly to each station just by rotating for best directional effect. Has noise-reducing Electro-Static Shield, too.



New "Piano-Key" Push-Button Tuning—1941 in design—gives you your choice of any six favorite stations, perfectly tuned at the touch of a button!



A
GREAT
CONSOLE
VALUE

(X)

Knight for 1941

(X)





ELECTED AMERICA'S BEST

"Radio Buys"!

This is *your* year for a new *KNIGHT* Radio Receiver! This exciting, world-shaking year means that more than ever before, you will want dependable radio reception. You get it in *KNIGHT*!

Long ago, we set down the principles governing the purchase of a new receiver. We have repeated them often, and we do so again. When you buy a new receiver, you have a right to expect:

- (1) It must have adequate power and the ability to tune its range strongly.
- (2) It must possess a richness of tone quality that will be a source of lasting enjoyment.
- (3) It must have all the new features that really contribute to operating efficiency.
- (4) It must be attractive in appearance so that it will enhance its surroundings.
- (5) It must be quality-built to give years of satisfactory operating service.

These qualities are essential. And they will be found in the *KNIGHT* Radios for 1941. Each of these new receivers measures up to this yardstick of Radio Value. Each gives you more for your money: more performance, more features, more beauty than ever!

So certain are we that you will be thoroughly satisfied with any *KNIGHT RADIO* you may buy—that we make the liberal Money-Back Guarantee Offer below—the fairest you could ask for.

Buy any *KNIGHT RADIO* on our regular terms. Try it out for fifteen days—give it every test for tone and power—you be the judge! We know you'll elect *KNIGHT RADIOS* as 1941's best buys!

(Note: You save, no matter whether you buy one *KNIGHT* Radio at the single-set price or three at our special lots-of-three prices. The lots-of-three price applies on orders made at any one time, for any three sets — whether of the same model or assorted—to bring you bigger savings.)

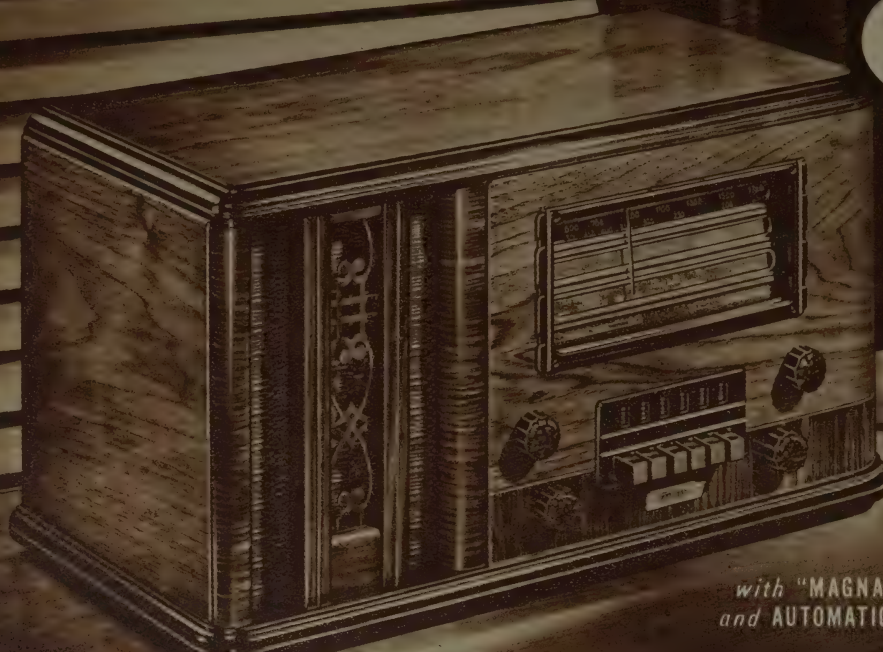


15 DAY TRIAL and MONEY-BACK GUARANTEE

Order any *KNIGHT RADIO* on our regular terms. Try it out under your own operating conditions. Check it in all ways. And then, if within 15 days—for any reason—you are not fully satisfied with your choice, you may return the set to us, and we will promptly refund your full purchase price, less transportation charges. This powerful Guarantee is further supplemented by the regular Radio Manufacturers' Association Guarantee against defect in materials and workmanship over a period of three months from date of purchase.

—ALLIED RADIO CORPORATION

HERE'S



with "MAGNA-BEAM"
and AUTOMATIC TUNING

R.C.A. &
HAZELTINE
LICENSED



8 TUBE ARMCHAIR MODEL

For those who desire the last word in radio comfort, convenience and beauty, we offer the **Knight 8** in a luxurious new Armchair Model. Placed next to easy chair or sofa, this new model makes an ideal radio for the finest of homes. It is magnificently styled and flawlessly built. Has top face of select walnut; with gracefully curved ends built up as shelf compartments which will hold books, pottery, smoking accessories, etc. The large speaker grille area is beautifully latticed and adds a distinctive touch to the design. Armchair Model measures: 26" wide, 22" high, 14½" deep. The **Knight 8** 3-Band AC chassis housed in the Armchair Model has all of the fine features described at the right, but includes larger 10" Dynamic Speaker. Has 3-Band range, "Magna-Beam," Push-Button Tuning, Tone Control, A.V.C., Television and F-M Connection, Slide-Rule Dial, etc. Enjoy world-wide tuning, the greatest operating convenience, magnificent tone quality and the luxury of an armchair cabinet. Here is a high-quality 1941 model that combines real convenience and the last word in radio luxury with the best radio performance you could ask—all at a surprisingly low price that will please you. For operation from 110 volts, 50-60 cycles, A.C. Shpg. wt., 50 lbs. Code: GROOM.

B10577. Value, \$62.50.

NET PRICE, EACH, \$32.95.

YOUR NET PRICE, LOTS OF 3, EACH.....

\$3125

Knight 8 TUBE 3 BAND AC

- Gets Foreign Reception
- Television, F-M Connection
- With Giant Slide-Rule Dial
- Automatic Volume Control
- Three Full Wave Bands
- With Tone Control
- Big Push-Pull Output
- Phono Connection

On every count, here's your best buy in an 8 tube (including rectifier) Receiver! Everything you could expect and want in a 1941 model is included. Full 3-Band Reception (Foreign tuning)—"Magna-Beam" loop antenna—Push-Button Tuning—5 Watts Output—along with one of the richest-looking table model cabinets in radio today. And the tone quality is a revelation! You'll wonder how we can sell the **Knight 8** at the price we're featuring!

Foreign Reception. Get a thrilling front-row seat with world-wide radio reception. Hear the news when it's made, direct from where it's made! The **Knight 8** tunes 3 full bands covering all the major radio channels. Tunes 2.2-7.6 and 7.5-24 M.C. for Short-Wave reception—gets Foreign and domestic programs, amateur, aviation, and police signals. Covers 535-1600 K.C. for powerful American and Canadian Broadcast programs from coast-to-coast.

Built-in "Magna-Beam." Forget about aerial and ground wires—you won't need them anymore with the improved built-in "Magna-Beam." Just place the set where you want it; plug in and play!

Automatic Tuning. Tune any six of your favorite stations automatically just by touching a button. It's delightfully easy—and it brings your favorite programs to you in a flash—tuned right on the head each time!

Giant Slide-Rule Dial. Manual tuning is easy, too, with the big new 7½" x 3½" Slide-Rule Dial. Has a separate scale for each band with large, clearly calibrated numerals that are easy to see.

1941 Superhet Circuit. Fully licensed by the famous R.C.A. and Hazeltine laboratories, the **Knight 8** uses these newest tubes: 6SJ7 as Osc.; 6SA7 as Mod.; 6SK7 as I.F.; 6SQ7 as Det.-A.V.C.-1st Audio (triple-purpose); 6SF5 as Phase Inverter; 2-6K6G as Push-Pull Power Output; 5Y3G as Rect. Only the highest-quality matched component parts are incorporated to assure perfect performance and consistently enjoyable reception.

All These Fine Features. Ready for Television and Frequency Modulation when they come—has plug-in provision for Television and F-M adapters; same connection may be used for attaching Record Player. Incorporates full-acting Automatic Volume Control to prevent fading and to keep volume uniform on all programs. Individual coils are used on each band for stronger reception and maximum sensitivity.

Glorious Tone Quality. Because the power output is better than 5 watts (more than you'll get in most nine and ten tube sets) and because a splendid new type of 6-inch Electro-dynamic speaker is employed, tonal reproduction is superbly realistic and full-bodied. You'll never grow tired of **Knight 8** tonal performance. And you'll like the personal Tone Control that gives you continuously variable regulation from deepest bass to highest treble in accordance with your desires.

1941 Table Model. The choicest of walnut veneers have been selected for this exquisite table model cabinet. The design reflects an unusual beauty, achieved by graceful proportions, softly curved ends, and beautifully figured grille cloth. The cabinet is hand-rubbed to a rich, lustrous piano finish. Size: 21½" long, 11" deep, 11" high.

Knight 8 Table Model Complete. The **Knight 8** is offered as described above, complete with tubes in beautiful table model cabinet. For 110 volts, 50-60 cycles, A.C. Shpg. wt., 35 lbs. Code: CHEER.

B10557. Value, \$52.50.

NET PRICE, EACH \$27.95.

NET PRICE, LOTS OF 3, EACH.....

\$2645

AMERICA'S FINEST 8 TUBE RADIO!



8 TUBE CONSOLE MODEL

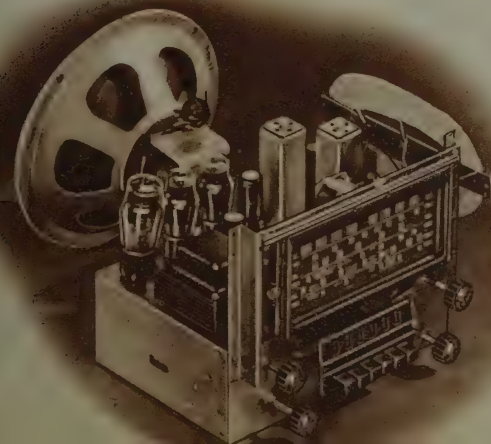
Here is a luxurious presentation of the **Knight 8** in a superb console model cabinet that's a real lesson in looks. Finest contrastingly-grained walnut veneers, carefully selected and matched, are used throughout. Recessed and slightly tilted instrument panel is set off by curved pilasters and harmonious speaker grille bars arranged in organ effect. Entire cabinet is hand-rubbed to a rich lustrous finish. Measures 39¼" high, 27½" wide, and 12½" deep. Incorporates chassis having all features of table model described on page 14, but has special 12" Concert-Dynamic speaker mounted in exceptionally large baffle area. Tunes three full bands: 535-1600 K.C.; 2.2-7.6 and 7.5-24 M.C. Features 5 Watts output, full Automatic Volume Control; continuously variable Tone Control, etc., as described in detail on opposite page. Includes built-in "Magna-Beam"—no aerial or ground required, Automatic Push-Button Tuning of any six selected stations, large Slide-Rule Dial, etc. Complete with tubes. For operation from 110 volts, 50-60 cycles, A.C. Shpg. wt., 65 lbs. Code: **VOGUE**.

B10578, Value, \$82.50.

NET PRICE, EACH \$43.95.

YOUR NET PRICE, LOTS OF 3, EACH.....

\$41⁷⁵



**AUTHENTIC
HEPPLEWHITE
DESIGN**



WITH R.C.A. CHANGER

8 TUBE PHONOGRAPH-RADIO

We are proud to present the 1941 **Knight 8** in a magnificent new Phonograph-Radio Combination. Designed to satisfy the most discriminating music lover! Housed in an authentic Hepplewhite period cabinet, available in either Walnut or Mahogany. The Radio portion of this superb instrument has all the fine features described on page 14, but incorporates special 12-inch Concert-Dynamic Speaker. Has 3-Band Range; "Magna-Beam" Loop; Push-Button Tuning; Tone Control; 5 Watts Output; A.V.C.; etc. Phonograph portion includes the latest R.C.A. gentle-action Automatic Record Changer with Crystal pick-up and self-starting motor. Plays eight 10-inch or seven 12-inch records at one loading; will give you a solid half-hour of marvelous entertainment without moving from your favorite chair. The lovely Hepplewhite cabinet is exquisitely fashioned of beautifully figured walnut veneers and is splendidly finished. Has convenient split-lid top. Size: 31" wide, 35½" high, 17½" deep. For operation from 110 volts, 50-60 cycles, A.C. Shpg. wt., 115 lbs.

B10579, In Walnut Finish.

B10580, In Mahogany Finish.

Value, \$137.50.

NET PRICE, EACH, \$72.50.

NET PRICE, LOTS OF 3, EACH.....

\$68⁵⁰

8 TUBE CHASSIS MODEL

The **Knight 8** is also available in chassis form only, as illustrated at the left. Makes a wonderful 1941 replacement for obsolete radios. Has all of the remarkable features described on page 14: 3-Band Reception; built-in "Magna-Beam"; Push-Button Tuning; Television and F-M Connection; Tone Control; A.V.C.; 5 Watts Output; Slide-Rule Dial, etc. Size: 11¼" x 8½" x 8¾". Comes complete with tubes, 12-inch Dynamic Speaker, escutcheon and knobs. A remarkable value in a fine replacement chassis. Easy to install. For operation from 110 volts, 50-60 cycles, A.C. Shpg. wt., 25 lbs. Code: **VALVE**.

B10566, Value, \$39.95.

NET PRICE EACH, \$21.50.

NET PRICE, LOTS OF 3, EACH.....

\$20⁴⁵

THRILL! THE NEW *Knight* 12 TUBE

LUXURIOUS BEAUTY
SYMPHONIC TONE
FIVE FULL BANDS
Popularly Priced!



R.C.A. &
HAZELTINE
LICENSED

CONSOLE!

POWERFUL WORLD-WIDE RADIO

- SUPER "MAGNA-BEAM"
- BAND-SPREAD TUNING
- R.F. ON ALL BANDS
- WITH ELECTRIC EYE
- PUSH-BUTTON TUNING
- BIG SLIDE-RULE DIAL
- BASS-TREBLE BOOST
- FULL-ACTING A.V.C.
- 12" DYNAMIC SPEAKER
- 7 WATTS OUTPUT
- 4 STAGE TONE CONTROL
- HAS F-M CONNECTION

Our finest **Knight Radio**—a 12-Tube set (including rectifier and electric eye) so powerful, so sensitive and selective, so packed with outstanding new features that we honestly believe it to be the greatest console radio value we have ever offered! You be the judge—here's an amazing 5 Band Tuning Range, Super "Magna-Beam," Automatic Tuning, R.F. on All Bands, Bass-Treble Compensation, Television—F-M Connection—everything you could want in a radio—at a price that's amazing! Add the promise of consistently glorious entertainment and up-to-the-minute styling—and you'll see why we're enthusiastic about this 1941 **Knight 12**!

Full World-Wide Coverage. Enjoy everything that's broadcast in the world today—direct! Five full tuning bands give you complete coverage of the world's most important radio stations. Each band is easy to tune, and the following ranges are covered: (1) Regular American and Canadian Broadcast band, 540-1630 K.C.; (2) Police, Amateur, Ships, and Airplane band, 2.27 M.C.; (3) S-p-r-e-a-d band for night-time European and South American reception, 9.45-9.77 M.C.; (4) S-p-r-e-a-d band for afternoon European and South American reception, 11.65-11.95 M.C.; (5) S-p-r-e-a-d band for morning European and South American reception, 15.05-15.35 M.C.

S-p-r-e-a-d Band Tuning. Here's a superb new tuning feature that increases tuning ease on the Short-Wave bands. Provides twenty times more space between dial calibrations, giving each Foreign band a wide tuning range. Makes it possible to tune foreign stations just like locals; s-p-r-e-a-d-s out the tuning area on the dial so you can't miss the stations. You'll applaud this tuning feature.

New Super "Magna-Beam." A great 1941 feature. The built-in Super "Magna-Beam" aerial does away with the bother of outside aerial and ground wires. Brings in stations powerfully from near or far; eliminates all installation problems; permits placing the console wherever desired. A special feature of the "Magna-Beam" is its ability to be directionally "tuned" to each and every station for perfect reception, simply by rotating the antenna. Also has built-in Electro-Static-Shield that reduces man-made static even in noisy locations.

Push-Button Tuning. Tune any six of your favorite stations automatically—just by pushing a button! There's nothing like it for tuning speed, convenience and accuracy. It's easy to set, fool-proof and precise. And in addition to Push-Button Tuning, you'll like the convenience of the manually-tuned Giant $9\frac{1}{2}$ x $3\frac{3}{4}$ " Slide-Rule Dial that shows all tuning ranges clearly. Each band is separately indicated as you switch it in; each is plainly calibrated for the easiest program logging. Double Electric Eye is incorporated for perfect visual tuning of both strong and weak stations.

Brilliant New Circuit. The **Knight 12** is a marvel of power, tonal beauty, and matchless efficiency. Its R.C.A. and Hazeltine licensed circuit uses the finest new tubes as follows: 6AB7 as R.F. Amp.; 6SA7 as Conv.; 6SK7 as I.F.; 6SQ7 as 2nd Det.-A.V.C. (dual-purpose); 6SK7 as 1st Audio; 6J5 as 2nd Audio; 6J5 as Phase Inverter; 2-6F6 as Push-Pull Power Output; 6SK7 as Tuning Eye Amplifier; 6AF6 as Tuning Eye; 5U4G as Rect. There's real team-work in this wonderful Superhet circuit.

All These Advanced Features. You'll find every noteworthy 1941 feature in the **Knight 12**. For greater efficiency, there's full-acting Automatic Volume Control—prevents fading—keeps volume uniform on all programs; R.F. Stage on all tuning bands increases sensitivity enormously, reducing interference and background noise; rubber-floated 3-gang tuning condenser gives sharper tuning and greater dependability; provision is made for connecting outside aerial when stronger Short-Wave or greater distance reception is desired; Wave Trap blocks out code interference on Broadcast band. And the **Knight 12** is ready for whatever tomorrow will bring. Has provision for connecting Television or Frequency Modulation adapter. Same provision also accommodates Record Player.

Glorious Tone Quality. The **Knight 12** has amazing power output of 7 full watts undistorted (10 watts peak). This giant volume is beautifully handled by the 12-inch Concert Dynamic Speaker and is reflected in thrilling tone that reproduces the entire tone register with fine fidelity. For added tonal enjoyment there is the 4-position personal Tone Control and Bass and Treble Compensation.

Gorgeous Console Grande. The **Knight 12** is handsomely presented in a magnificent new console in the latest 1941 vogue. Selected walnut veneers are featured; front face is softly curved at ends; instrument panel is pleasingly slanted; the speaker grille styling has a massive organ-effect. The console is richly finished—a superb cabinet masterpiece. Measures $41\frac{1}{2}$ " high, 30" wide, $14\frac{1}{2}$ " deep.

The Knight 12 Tube 5 Band AC Superhet is offered complete with tubes in the console illustrated at the left. For operation from 110 volts, 60 cycles AC.

Shpg. wt., 90 lbs. Code: POWER.

B10570. Value, \$104.50.

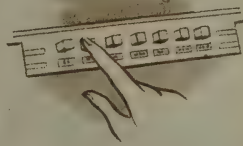
NET PRICE EACH, \$54.95.

YOUR PRICE, LOTS OF 3, EACH.....

\$52⁴⁵



Built-in Super
"Magna-Beam"



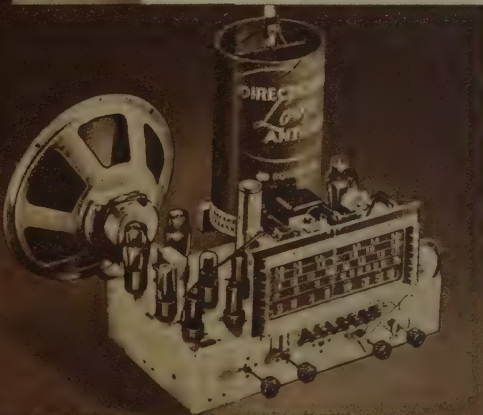
6 Push-Button
Automatic Tuning



Five Full Bands—
World-Wide Range



12-Inch Concert-
Dynamic Speaker



12 TUBE CHASSIS ONLY

The **Knight 12** is also available in de luxe chassis form only, as illustrated at the left. Makes a magnificent 1941 replacement for obsolete radios. Has all of the remarkable features described above: 5-Band Reception; built-in Super "Magna-Beam;" Push-Button Tuning; Giant Slide-Rule Dial; Band-Spread Tuning; Tone Control; A.V.C.; 7 watts Output; Bass-Treble Compensation; R.F. on All Bands; Electric Eye, Television, F-M, Phono Connection; 12-inch Concert Dynamic Speaker, etc. Chassis measures: 17" long, $9\frac{1}{2}$ " deep, 11" high. There is no finer replacement chassis available today. Commands the world's radio broadcasts; tunes with amazing ease and precision; thrills you with its superb tone. It's a truly remarkable radio value at our price! Comes complete with tubes, 12-inch Concert Dynamic Speaker, escutcheon and knobs. Includes everything you need to make the finest type of radio installation. Our very finest 1941 chassis, embodying every new feature and improvement, equaling custom-built quality and performance. Easy to install. For operation from 110 volts, 60 cycles AC. Shpg. wt., 32 lbs. Code: TRUST.

B10543. Value, \$69.95.

NET PRICE EACH, \$36.75.

NET PRICE, LOTS OF 3, EACH.....

\$34⁹⁵

R.C.A.
LICENSED



Knight 6 TUBE 2 BAND AC-DC

A leader for console value—an excellent quality 2-Band Knight with wonderful tone—that's this new 6 Tube AC-DC Superhet. You'll enjoy its powerful reception, its Push-Button Tuning, its smart Console cabinet. Note our money-saving low price, and you'll agree it's one of the season's Best Buys!

Foreign Reception. At a lower price than many one-band radios, the Knight 6 (with rectifier) offers you full two-band reception. Tunes 535-1720 K.C. for dependable, enjoyable reception of American and Canadian standard Broadcast stations plus upper channel Police calls. And you can also tune exciting foreign programs on the Short-Wave band from 5.65 to 18.3 M.C. You get double the tuning thrill with this powerful, dependable two-band coverage.

Push-Button Tuning. Your favorite programs are at your finger-tips with the dependable Push-Button tuning system. You can tune any of four selected stations at the touch of a button. And for manual tuning there's a new $3\frac{1}{4}$ " "44 $\frac{1}{4}$ " Pearlold Slide-Rule Dial with a separate scale for each of the wave-bands that makes logging easy and accurate.

"Magna-Beam" Built In. Radio's newest feature—the built-in antenna system that does away forever with trailing aerial and ground wires, yet provides strong signal pickup. Other extra-value features include Full Automatic Volume Control to maintain uniform volume level; Phonograph connection—just attach any Record Player (see pages 28-30) for extra entertainment; Continuously Variable Tone Control for personal choice of tone emphasis; Television and Frequency-Modulation adapter connection.

Powerful Superhet. The new RCA licensed Superhet circuit employs latest efficient tube types for greater power. Uses 12A8GT as Conv.; 12J5GT as Osc.; 12K7GT as I.F. Amp.; 12Q7GT as Diode Det.-A.V.C.-1st. Audio (triple-purpose); 35L6GT as Power Output; and 35Z5GT rectifier. 2.5 watts output is developed from the 35L6GT stage to provide plenty of strength for enjoyable reproduction of all programs. The Knight 6 operates with equal efficiency from 110 volts, 40-60 cycles AC or DC or (with adapter below) from 220 volts.

Beautiful Tone. You'll always enjoy listening to the Knight 6. Every program is richly and faithfully reproduced by the big 8-inch Electro-dynamic speaker. The mellowness, the clarity of Knight 6 tone will put new meaning into your favorite radio programs.

Handsome Console Cabinet. The Knight 6 is presented in a beautifully-proportioned console with sloped front panel, and pilasters of choice walnut with contrasting inlay trims. Measures: 32" high, 26 $\frac{1}{2}$ " wide, 12" deep. You get wonderful value in this quality console model that costs but little more than an ordinary six-tube table model receiver.

Set Complete. Knight 6 Tube 2 Band AC-DC Superhet (with rectifier) is offered complete with tubes in console cabinet illustrated. For operation from 110 volts, 40-60 cycles, AC or DC. Shpg. wt., 42 lbs. Code: ALPHA.

B10590. Value, \$47.50.
NET PRICE EACH, \$24.95.
NET, LOTS OF 3, EACH.....

\$23.65

B9144. 220 Volt Adapter. NET.....59c



Knight "LULLABY" 5 TUBE RADIO AND BED LAMP

Stop counting sheep! Let the new Knight "Lullaby" send you to sleep with soft slumber music—and wake you up in the morning with a serenade that will help you start the day right. Combined with this clever new personal radio, there's a built-in bed lamp scientifically designed to be kind to your eyes. Here's 1941's newest radio for everyone—and a special boon for stay-abeds.

Enjoyable Reception. The Knight "Lullaby" tunes the complete Broadcast band from 535 to 1720 K.C. for complete coverage of your favorite stations, plus upper channel Police calls. It operates with equal efficiency from 110 volts, 40-60 cycles, AC or DC. Just plug into any convenient outlet. You can attach it to the headboard of your bed in a jiffy and enjoy wonderful radio reception while you're at your ease, without the least disturbance to the rest of the family. You can read, too, by the soft clear light of the built-in bed-lamp. You couldn't ask for greater luxury.

Latest Features Built-In. There's the new "Magna-Beam" antenna—no more fuss with annoying aerial or ground wires. Just plug in and play! There's an unusually attractive molded dial—conveniently placed for easy tuning. There's a full-sized Dynamic speaker to give you wonderful tone quality and to make every program a joy to hear. The powerful RCA licensed Superhet circuit uses latest efficient tubes as follows: 12A8GT as Conv.-Osc.; 12K7GT as IF Amp.; 12Q7GT as Diode Det.-A.V.C.-Audio Amp.; 35L6GT as Output; 35Z5GT rectifier. Full Automatic Volume Control maintains uniform volume level. A big 1.5 watts output gives you plenty of power for all whisper to the full output of the receiver.

Attractive Plastic Cabinet. Built right into the cabinet is a correctly designed bed lamp of the latest high-power tubular type. Gives you maximum reading ease and eye-comfort. One-piece molded of durable deep-toned walnut or ivory finished plastic, the cabinet measures 5 $\frac{1}{2}$ " deep x 9 $\frac{3}{4}$ " long x 7" high. It blends in perfectly with the finest furniture. Has handy non-marring, rubber-covered headboard hooks.

Set Complete. Knight "Lullaby" complete with tubes and bed lamp bulb. For 110 volts, 40-60 cycles, AC or DC. Shpg. wt., 10 lbs.

B10551. Ivory Finish.
B10548. Walnut.
NET PRICE EACH, \$12.97.
NET, LOTS OF 4, EACH.....

\$11.75

Knight 5 TUBE PHONO-RADIO

Enjoy double the entertainment—get double the value for your money in this thrilling new **Knight 5 Tube** (with rectifier) Radio-Phonograph. Here's the instrument that brings you the kind of tone quality you want from both radio and records—the kind of cabinet beauty you'll always admire—and a host of new features characteristic of 1941's best instruments—all at a price within anyone's means!

Brilliant Phono Performance. The very finest quality phonograph equipment is built into the **Knight 5** to furnish enjoyable reproduction of all 10" or 12" recordings. A powerful, silent 78 RPM motor of the self-starting type is equipped with an over-size 9" turntable. The latest Astatic tangent-head Crystal pickup brings out every musical subtlety from symphonic or popular records. Automatic stop, built-in needle-cup, arm-rest, and handy phono-radio switch are added conveniences. Everything you need for the quality reproduction of phonograph records is included in this fine instrument.

Powerful Superhet Radio. For superb radio reception this new **Knight 5** Combination instrument incorporates an efficient, sensitive Superhet circuit licensed by RCA. Covers the complete Broadcast band, plus upper channel Police calls, from 535 to 1720 K.C. Has full Automatic Volume Control to provide uniform volume level on all programs; a heavy-duty 5-inch P.M. Dynamic speaker to give you thrilling tone quality on both radio and phono; a new Pearlloid square-faced dial for unusually easy tuning. Latest tubes are used as follows: 12A6GT as Conv.-Osc. (dual-purpose); 12K7GT as I.F. Amp.; 1207GT as Diode Det.-A.V.C.-1st Audio (triple-purpose); 35L6GT Power Output (develops 2 full watts); and 35Z5GT rectifier. The use of multi-purpose tubes results in more than five tube power and efficiency.

Built-in "Magna-Beam." Built right in, this new antenna does away with annoying aerial and ground wires. Just plug into the nearest electric outlet and play perfectly! You'll like this outstanding 1941 convenience feature.

Splendid New Cabinet. Beautifully fashioned of choice, matched walnut veneers. The tasteful design will harmonize in any setting. Size: 14 1/4" x 11 1/4" x 9 1/4". Lid closes over all records to keep surface noise at minimum. Here is real distinction—real beauty in styling.

Set Complete. The **Knight 5 Tube** (with rectifier) Phono-Radio combination is supplied complete with tubes in table cabinet at right above. For operation from 110 volts, 60 cycles, A.C. Shpg. wt., 32 lbs. Code: MANOR.

B10519. Value, \$39.95.
NET PRICE EACH, \$21.45.
NET, LOTS OF 3, EACH.....

\$20⁶⁵



R.C.A.
 LICENSED

**Glorious ENTERTAINMENT
 AT LOW COST!**

Knight 6 TUBE PHONO-RADIO

This luxurious musical instrument—a new 1941 **Knight Radio-Phonograph**—will bring the world's finest entertainment to your home. It's a musical masterpiece designed for the discerning listener—a thrilling creation in cabinetry to charm the most meticulous taste. Enjoy the thrill of Foreign radio reception **plus** glorious hours of recorded music. They're both yours at a record-breaking low price in this new instrument.

Foreign Reception. Bring the world to your living-room with the **Knight 6** (including rectifiers). Tuning range offers reliable Short-Wave reception on the 5.65-18.3 M.C. band as well as powerful standard American and Canadian Broadcast reception from 535 to 1720 K.C. Gets Police Calls, too. The giant 9"x6" Slide-Rule dial makes tuning simplicity itself—indicating each band clearly.

Push-Button Tuning. For added convenience, the **Knight 6** provides automatic push-button tuning for any six of your favorite stations. Just push a button—and there's your station—tuned in perfectly, precisely.

"Magna-Beam" and Extra Features. The finest 1941 features for better performance and greater convenience are built into the **Knight 6**. "Magna-Beam" antenna is radio's newest achievement—does away forever with trailing aerial and ground wires. Automatic Volume Control provides uniform volume level on all stations. Variable Tone Control enables you to choose the tonal emphasis you most enjoy.

Powerful Superhet. You get radio's latest developments in the new RCA licensed Superhet circuit. Uses 6SA7GT as Conv.-Osc. (dual-purpose); 6SK7GT as I.F. Amp.; 6SQ7GT as Diode Det.-A.V.C.-1st Audio (triple-purpose); 25C6G as Power Output; and 2-25Z6GT as rectifiers and voltage doublers. Full 4 watts output assures you of better radio reception and added power for perfect record reproduction.

Finest Phono Equipment. A dependable smooth-acting General Instrument Record Changer plays 12-10" or 10-12" records at a single loading for more than half an hour of continuous entertainment. Wide-range Crystal pickup; constant-speed, self-starting 78 RPM motor; and built-in needle-cup are other valuable features. You get the last word in automatic, luxurious phonograph entertainment.

Magnificent Tone. On radio or records—voice or music—the tone quality of the **Knight 6** will delight the most exacting listener. Employs a concert-size 10-inch Electro-dynamic speaker for wonderful richness and fidelity of tone. You'll congratulate yourself on the ownership of this fine-tuned instrument. You'll thrill to its wonderful performance.

Graceful Console Cabinet. A masterpiece of modern design. Features matched walnut veneers, smart grille bar arrangement, and gentle-action hinged lid. Size: 33 3/4" high, 32" wide, 17" deep.

Knight 6 Tube Phono-Radio Complete. Supplied complete with tubes; in console cabinet at right. For operation from 110 volts, 60 cycles, A.C. Shpg. wt., 105 lbs. Code: DIANA

B10591. Value, \$114.50.
NET PRICE EACH, \$60.35.
NET, LOTS OF 3, EACH.....

\$57⁹⁵



**WITH
 AUTOMATIC CHANGER
 BUILT-IN "MAGNA-BEAM"
 AUTOMATIC TUNING**

The Music
You Want
When You
Want it



R.C.A. & HAZELTINE
LICENSED

\$5285

EACH, IN LOTS OF 3

FEATURES:

- Foreign Reception
- 10-Inch Speaker
- Automatic Changer
- Plays All Records
- Bass Compensation
- Variable Tone Control

Knight 7 TUBE 2 BAND PHONOGRAPH-RADIO

Now—Complete Home Entertainment—brought within the reach of everyone! It's almost incredible that such a low cost brings you the whole range of radio and recorded entertainment with all the luxury of superlative tone quality—the ease of Automatic Record Changing—the beauty of a magnificent new console cabinet. This new **Knight** musical instrument is truly an amazing achievement. It's the first high-quality radio-phonograph ever offered at so low a price. And it has dozens of worthwhile features to add to your enjoyment and ease of operation.

Foreign Reception. The powerful new 1941 Superhet circuit built into the **Knight 7** (including rectifier) offers you thrilling, unusually dependable reception on two full wave bands. Tunes 5.78-18.1 M.C. for excellent coverage of Short-Wave Foreign and domestic programs—bringing you the news of the world as it happens. Covers 540 to 1630 K.C. for all American and Canadian standard Broadcast programs. You'll enjoy the added entertainment you get from the full two band range that covers most of the important radio channels powerfully and dependably. Every program is reproduced in a thoroughly life-like way—with the kind of tone quality you'd expect from the most expensive sets.

Automatic Push-Button Tuning. Tune any of six of your favorite stations automatically—Instantly—simply by pushing a button. The big new Piano-Key type push-buttons are extra large—extra easy to operate. Just touch the button—and there's your station. Push-Button tuning is easy to set, right from the front; works right, stays right. For improved manual tuning there's a handsome six-inch dial with easily legible calibrations and a separate scale for both bands.

Built-In "Magna-Beam." Another feature for extra convenience. No more trailing aerial and ground wires to bother with. Has the powerful new "Magna-Beam" loop aerial built into the set. Just plug in and play. "Magna-Beam" assures better signal pick-up, too.

Latest Superhet Circuit. There's an unusually powerful, efficiently engineered Superhet circuit at the heart of the **Knight 7's** performance. Licensed by R.C.A. and Hazeltine, this circuit incorporates 1941's newest features. Has R.F. on both bands—an expensive set feature that means extra sensitivity and longer distance reach. Newest tubes are used as follows: 6SK7 as R.F. Amp.; 6SA7 as 1st. Det.-Osc. (dual-purpose) 6SK7 as I.F. Amp.; 6SQ7 as 2nd Det.-A.V.C. (dual-purpose); 6SK7 as 1st Audio; 6K6 as Power Output; and 5Y3 rectifier. This superb circuit assures you of greater dependability and finer performance on both radio and phonograph.

Automatic Record Changer. You'll thrill to the convenience of automatic record changing. Just load the changer with your favorite records and sit back to enjoy uninterrupted recorded entertainment. The **Knight 7** incorporates the latest Seeburg changer—one of the finest made. Motor is dependable, self-starting type. Counter-balanced Crystal pickup has an unusually wide frequency range; its gentle action and correct record-tracking assure you of longer record life. Changer will take up to fourteen 10-inch or ten 12-inch records to give you almost a full hour of carefree musical entertainment without stirring from your favorite chair. You couldn't ask for greater phonograph convenience.

Superb Tone Quality. For the very finest reproduction of both radio programs and records, the **Knight 7** uses a new heavy-duty 10" concert-dynamic speaker. Handles the full 3.2 watts output with amazing efficiency to give you full-voiced, glorious tone on both records and radio. Continuously variable Tone Control enables you to select bass, treble, or intermediate emphasis at will. Bass compensation assures correct rendition of lower register. Even the most critical music lover will find himself enthusiastic about this faithful, realistic tone quality.

Extra Features. Full Automatic Volume Control maintains uniform volume level on all radio programs; prevents fading or blasting when distant stations are tuned. Heavy-duty rubber-mounted tuning condenser adds to stability. Connections for Television and Frequency-Modulation attachments prevent obsolescence—your **Knight 7** Radio-Phonograph can't grow out of date. It's ready for whatever the future may bring.

De Luxe Console Cabinet. As a fitting complement to **Knight 7** performance, this sensational Radio-Phonograph is presented in an imposing, tastefully designed console cabinet. Its graceful proportions, glowing finish, and painstaking cabinetry will enhance any setting. Finest walnut matched woods are rubbed to a lustrous finish. There's a smoothly-acting hinged lid and a gracefully shaped base. A note of distinction is lent by the distinguished burnished gold grille cloth. Cabinet measures: 31" wide, 36" high, 18" deep.

The Knight 7 Tube (with rectifier) Radio-Phonograph is offered complete with tubes, Seeburg Changer, "Magna-Beam," and 10" speaker. For operation from 110 volts, 60 cycles, AC. Shpg. wt., 85 lbs. Code: CHIME.

B10573. Value, \$104.50.
NET PRICE, EACH, \$54.95.
YOUR NET PRICE,
LOTS OF 3, EACH,.....

\$5285



Built-In Magna-Beam—the miracle antenna that does away with trailing aerial and ground wires. Just plug in anywhere and play perfectly!



Automatic Push-Button Tuning—your favorite stations always at your instant command.

Knight 12 TUBE 5 BAND PHONOGRAPH-RADIO

Here is your invitation to pleasure . . . to the thrill of world-wide radio reception . . . to the glory of luxurious record reproduction . . . to the most magnificent tonal quality you've ever heard. All this—and more—is yours in this—the finest complete musical instrument **ALLIED** has ever brought you. You'd expect to pay a lot more for this distinguished instrument . . . yet we offer it at a price so much lower as to seem almost unbelievable. Here's our invitation to enjoy modern radio and records at their best!

Thrilling Foreign Reception. Five full wave-bands—packed with entertainment and excitement—are at your command in the **Knight 12** (including rectifier and electric eye). The whole wide world of enjoyable radio is ready to be summoned up at your bidding. The mighty Superhet circuit of the **Knight 12** spreads out the Short-Wave bands for the most dependable, easiest-to-tune reception you've ever experienced. Tunes 15.0 to 15.4 M.C. (for 19 meter stations); 11.5 to 11.9 M.C. (for 25 meter stations); 9.4 to 9.7 M.C. (for 31 meter stations). Tunes all Police Calls on the 2200-7000 K.C. band; and offers coast-to-coast American and Canadian standard Broadcast reception from 540 to 1630 K.C.

Automatic Push-Button Tuning. Tune any six of your favorite Broadcast stations just by touching a button. Operates quickly—unerringly—every time. In addition, there's an impressive, scientifically designed Slide-Rule dial for easy manual tuning. Has a separate scale and individual indication for each wave-band and large, easy-to-read calibrations.

Radio's Finest Superhet. Powerful, dependable, completely 1941—that's the R.C.A. and Hazeltine licensed Superhet circuit used in the **Knight 12**. It's packed with new refinements. Features R.F. on all bands for absolutely reliable station-logging. Band-s-p-r-e-a-d on 19, 25, and 31 meter bands increases the tuning-range twenty-fold on each band. Latest tube types are employed as follows: 6AB7 as R.F.; 6SA7 as Osc.; 1st Det.; 6SK7 as I.F. Amp.; 6SQ7 as A.V.C.; 2nd Det.; 6SK7 as 1st Audio; 6J5 as 2nd Audio; 6J5 as Phase-Inverter; 2—6F6 as mighty Power Output; 6SF6 Electric Eye; 6SK7 Electric Eye Amp.; 5U4G rectifier. Other de luxe features include: full Automatic Volume Control; full 6 watts undistorted output; Television and F-M adapter connections; etc.

De Luxe Record Changer. The **Knight 12** employs the new de luxe Seeburg Automatic Record Changer—one of America's finest. Has wide-range Crystal pickup; self-starting 78 R.P.M. motor; and single-control operation. Changer accommodates up to fourteen 10-inch or ten 12-inch records at one loading—for almost a full hour of glorious entertainment without interruption. Pickup is automatically released by starting switch. Selector blades cannot chip or harm your records; operate smoothly and perfectly.

Magnificent Tonal Reproduction. Every note—every sound—from radio or records is recreated for you with all the vital realism of the original performance. A concert-size 12-inch Dynamic speaker mounted for fullest baffle area handles the big 6 watts output in an enjoyable way. 4-Position Tone Control permits you to choose bass or treble emphasis at will. Bass compensation and bass booster bring up the lower register to provide properly-balanced tone on every program. Symphony or swing, orchestra or soloist, seem to be right in the room with you.

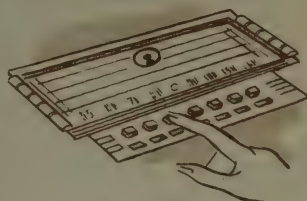
Extra Features. The built-in "Magna-Beam" antenna does away entirely with aerial and ground wires. It's the last word in 1941 radio convenience. Electric Eye—right in the dial face—shows you instantly when stations logged manually are properly tuned. Automatic Volume Control maintains steady volume level.

Gorgeous Console Cabinet. A beautiful creation of skilled design and careful craftsmanship. Superbly built of finest walnut woods with convenient split-type lid, handsome cross-bar grille, and smoothly rounded edges. Rubbed to a gleaming piano finish. Measures: 36" wide, 37" high, 18" deep. It's a cabinet for lovers of good furniture—an instrument for lovers of fine music.

Set Complete. The **Knight 12** (with electric eye and rectifier) is supplied complete with tubes, Seeburg Record Changer, built-in "Magna-Beam," and 12-inch Dynamic speaker. For operation from 110 volts, 60 cycles, A.C. Shpg. wt., 145 lbs. Code: GRAIL.

B10572. Value, \$154.95.
NET PRICE,
EACH, \$83.50.
NET, LOTS OF 3,
EACH.....

\$79⁹⁵

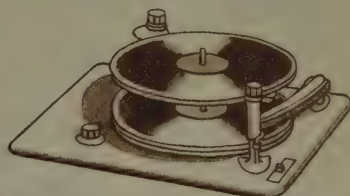


PUSH-BUTTON TUNING

Your favorite stations at your finger-tips—with "feather-touch" Automatic Push-Button Tuning. You can tune any of six stations automatically—effortlessly. The big new Slide-Rule Dial tunes each band with the greatest ease and accuracy.

DE LUXE PHONOGRAPH

You'll enjoy the luxury of automatic record changing with the newest Seeburg Changer—one of the very finest made. Easy to operate—always dependable. Load up fourteen records . . . sit back . . . and be luxuriously entertained!



R.C.A. & HAZELTINE LICENSED

FEATURES:

- 12-inch Speaker
- "Magna-Beam"
- R.F. On All Bands
- Bandsread Dial
- 6 Watts Output
- Tone Control
- Electric Eye



MAKE RECORDS! PLAY RECORDS!



Knight 6 TUBE PHONO-RADIO-RECORDER

Four wonderful instruments in one—just a dream yesterday—and today a magnificent reality! Here's what this sensational Complete Home Entertainer consists of: (1) a 6 Tube (including rectifier) Receiver for radio enjoyment; (2) a magnificent Phonograph with Automatic Record Changer for luxurious record reproduction; (3) a perfected Recorder that gives you the thrill of making your own records "over-the-mike" or "off-the-air"; (4) an efficient Home Broadcaster with endless possibilities for amusement. Here is the ultimate achievement of radio—presented for your complete enjoyment—priced amazingly low!

Make Your Own Records! Anyone can do it—with perfect results. The recording mechanism is simply designed, and operation is automatic and dependable. Consists of a General Industries combination Automatic Record Changer-Recorder. The motor is of the latest 75 R.P.M., rim-driven type with heavily-weighted, accurately balanced turntable. A Crystal cutting head is used for grooving and recording. You can make records of radio programs by switching the radio output into the cutting head—or you can make your own "live" talent records over the Shure Crystal Microphone which is provided.

Powerful Radio Reception! You couldn't ask for a finer radio than that incorporated in this **Knight** Combination Instrument. Tunes 535 to 1720 K.C. to bring you coast-to-coast American and Canadian standard Broadcast reception, as well as coverage of the 1712 Police Channel. Has very important 1941 feature for powerful reception, easy tuning, and luxurious tone quality. Includes the improved built-in "**Magna-Beam**" loop aerial—no aerial or ground required—just plug in and play. **Giant Clock-Type Dial** makes manual tuning easy and accurate. **Tone Control** is incorporated to give emphasis to bass or treble to suit personal tastes; has **A.V.C.** to prevent fading and to keep volume uniform on all stations. **3 Watts Output** provides amazing power that insures the finest tonal results on radio, recording, phonograph and microphone reproduction. A **10-inch Concert-Dynamic Speaker**—one of the finest made—reproduces with exceptional fidelity of tone. The R.C.A. licensed circuit uses the following new type tubes: 6SA7, 6SK7, 2-6SQ7, 6V6GT, 6X5GT. Has provision for attaching Television or Frequency-Modulation adapter. You can count on the **Knight 6** for consistently enjoyable radio reception.

Automatic Phonograph Playback! The **Knight 6** is also a complete Electric Phonograph with de luxe Automatic Record Changer. The same turntable which makes your records also is part of the Automatic Record Changer that plays back all records. A lightweight, fine fidelity Crystal playback pickup is used. You can load up the Automatic Record Changer with either twelve 10-inch or ten 12-inch records and enjoy almost an entire hour of recorded music without any attention or bother on your part! Here is phonograph entertainment at its luxurious best—just another feature of this magnificent 4-in-1 instrument!

Superb Tone Quality. Even the most critical judges of good tone quality will applaud the faithful performance of the **Knight 6**. Not only is this amazing tonal realism apparent on each radio program tuned, and each recording played, but it is an important factor in making your own fine records.

Gorgeous Console Cabinet. The **Knight 6** is presented in a luxurious new console of arresting beauty. Finest walnut veneers are used throughout, in contrastingly-grained effect. The large speaker area is ideal for best acoustical results and is styled in a graceful, dignified manner. The entire console is hand-rubbed to a high lustre. It is truly a fitting cabinet masterpiece. Measures: 31" high, 32" wide, 16½" deep.

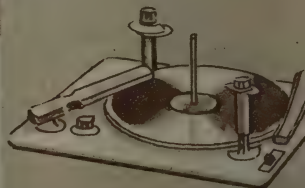
Combination Complete. The **Knight 6** Phono-Radio-Recorder is offered complete as illustrated and described. Includes: **Knight 6** Tube AC Radio Complete; Complete Automatic Record Changer-Recorder; Shure Crystal microphone, stand and cord; steel recording needle and six 6½-inch recording blanks. With instructions. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 85 lbs. A magnificent instrument for complete home entertainment.

Code: DRAMA.
B10592. Value, \$145.00.
YOUR NET PRICE

\$74⁵⁰

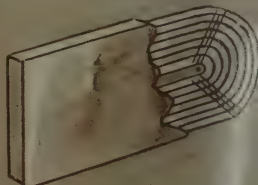
For Recording Blanks, Needles and Phonograph Accessories, see pages 30-31, and 94.

ALL THESE FINE



MAKES RECORDS!

Illustration shows the Crystal Cutting head in action—making a high-quality record for you. There's nothing to it—every step is automatically regulated. Works in a jiffy. Records favorite radio programs direct from receiver; records "live" talent from Crystal microphone which is supplied. Anyone can make good quality records easily and inexpensively with these magnificent new 1941 instruments. You can play records back on the same turntable just a second after they're cut.



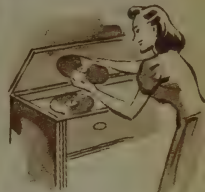
WITH "MAGNA-BEAM"

Each of these versatile combinations incorporates the efficient 1941 "Magna-Beam" built-in loop aerial—and that means no more fuss and bother with outside aerial or ground wires. Just place the console where you want it, plug in and play perfectly!

ENJOY THRILLING RADIO!



RECORDS VOICE,
MUSIC AND RADIO



PLAYS RECORDS
AUTOMATICALLY



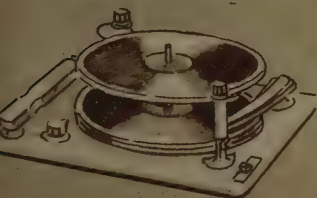
HAS POWERFUL
2 BAND RADIO



SERVES AS HOME
BROADCASTER

R.C.A. Licensed

1941 FEATURES!



PLAYS RECORDS!

The same turntable which makes your records is part of a high-quality Automatic Record Changer that plays back all records. Found only in the finest high-priced instruments. Plays twelve 10-inch or ten 12-inch records at one loading for almost an hour of entertainment without once leaving your favorite chair. The whole fascinating library of recordings awaits you with its hours of thrilling entertainment. You get luxurious and convenient phonograph reproduction with either of the fine instruments on these pages.



POWERFUL RADIO

You couldn't ask for finer radio reception than that offered you by these versatile instruments. You'll find them the last word in tuning ease—with their big full-vision dials and their powerful and dependable range. Everything you could want in a radio receiver is here.

Knicht 9 TUBE PHONO-RADIO-RECORDER

The Complete Home Entertainment Instrument of Tomorrow is here—ready for your enjoyment Today—at a price you can afford! Think of it—here's an instrument that makes its own quality records, either right "off-the-air" or over its own microphone; gives powerful 2 Band Radio Reception; plays all phonograph records flawlessly by means of the built-in Automatic Record Changer; serves as an entertaining Home Broadcaster system. And yet it costs no more than an ordinary radio-phonograph combination only! It's a magnificently versatile instrument—this **Knicht 9** (including rectifier and electric eye)—and an incomparable value at our price!

Easy To Operate. A special control panel is provided which works like a switchboard. Push-Buttons are provided for controlling phonograph motor, phonograph playback, radio reception, "off-the-air" and microphone recording, home broadcasting, etc. The radio portion has its own control panel. Anyone can operate the **Knicht 9**. Everything is clearly marked—you just push the proper button and the function you want automatically goes into action.

The Recording Apparatus. It's simple to make your own records perfectly with the efficient, simplified recording mechanism. Consists of a General Industries combination Automatic Record Changer-Recorder motor of the latest 78 R.P.M. rim-driven, constant-speed type. Has heavily weighted and accurately balanced 10-inch turntable. Includes high-fidelity Crystal cutting head for grooving and recording. To record a radio program, you just tune in the station, place a recording blank on the turntable, start the motor (by push-button), and the cutting head goes to work. That's all there is to it. To record "live" talent, push a button which switches in the Shure Crystal microphone (which is supplied).

The 9 Tube Radio Receiver. 1941 in every detail. Tunes 2 full wave bands: 5.65-18.3 M.C. brings you foreign Short-Wave programs, amateur, aviation, and police calls; 535-1720 K.C. covers the full American and Canadian standard Broadcast station range. Just check these outstanding features: Built-in "Magna-Beam"—no aerial, no ground needed; **Push-Button Tuning**—tune any four favorite stations automatically; giant **Slide-Rule Dial** for easy manual tuning; **Electric Eye** for perfect visual tuning; **Tone Control** for bass or treble emphasis as desired; **A.V.C.** to keep volume uniform on all programs; **4 Watts Output**—amazing power that means the finest results on radio, recording, phonograph and microphone reproduction; **12" Dynamic Speaker**—one of the finest made, for superb tonal results: **R.C.A. Licensed Superhet**, using: 6SA7, 6SK7, 6BG8, 6J7G, 6SQ7, 2-6K6GT, 5Y3G, 6U5.

Phonograph Playback. The **Knicht 9** Combination makes a perfect-playing Automatic Phonograph. The same turntable which makes your records, is used for automatically playing back twelve 10-inch or ten 12-inch records at a single loading. Has featherweight, high-quality Crystal pickup. It's the last word in phonograph luxury. Just load up and enjoy almost an hour of perfect record reproduction.

Authentic Period Design. We could not have created a more appropriate design for this amazing instrument than the authentic Hepplewhite Cabinet in which it is offered. Available either in mahogany or in walnut. Truly an expensive-looking piece of home furniture. Top lid lifts to give access to control mechanism. One of the front doors opens to give access to record album compartment. Other door serves as speaker grille. Cabinet measures: 37" high, 32 1/4" wide, 16 1/2" deep.

Combination Complete. The **Knicht 9** Combination is offered complete as described. Includes **Knicht 9** Tube 2 Band AC Radio complete; Automatic Record Changer and Recorder; Shure Crystal microphone, stand and 12-foot cord; steel recording needle and six 6 1/2-inch recording blanks. With instructions. For 110 volts, 60 cycles A.C. Shpg. wt. 90 lbs.

B10593. In Walnut Finish.

B10594. In Mahogany Finish.

Value, \$169.50. **NET PRICE EACH, \$87.50.**

YOUR PRICE, LOTS OF 3, EACH.

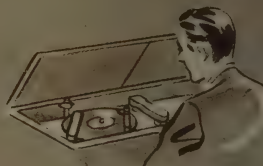
\$83⁵⁰

MAKE RECORDS! PLAY RECORDS!

Get New



AUTOMATIC PHONOGRAPH



QUALITY RECORD PLAYER

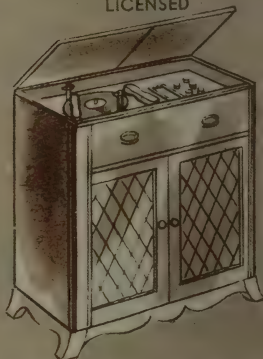


POWERFUL RADIO



HOME BROADCASTER

**RCA & HAZELTINE
LICENSED**



PHONO-RADIO ONLY

The luxurious new **Knight 7** is also offered as a **Phonograph-Radio** only. Has many of the desirable features of model shown at left, but does not include Recorder, microphone, or recording accessories. Has Superhet circuit using 6SA7, 6SK7, 6SQ7, 6SF5, 2-6K6G (push-pull Power Output), 5Y3G tubes, two-band range, AVC, Tone Control, 10-inch speaker, "Magna-Beam," antenna, etc. Employs latest RCA Automatic Record Changer; plays 8-10" or 7-12" records automatically. In console cabinet identical with model at left. Complete with tubes. For 110 volts, 60 cycles, AC. Shpg. wt., 110 lbs. Code: YOUTH.

B10585. Walnut finish.
B10586. Mahogany finish.
Value \$112.50

**NET EACH,
\$59.95.**

**NET, LOTS OF 3, \$56.95
EACH**

Knight 7 TUBE PHONO-RADIO-RECORDER

You haven't seen radio's newest miracle until you've seen this marvelous new **Knight 7** Tube (including electric eye and rectifier) Phono-Radio-Recorder. It's radio's finest triumph—opening new horizons of Complete Home Entertainment. It's a complete Home Recorder—enabling you to make your own quality records. It's a splendid Electric Phonograph—giving you glorious reproduction of all recordings. It's a powerful Two-Band Radio—bringing you the best of everything on the airwaves. And it's a home Public Address System—permitting you to make announcements through the radio amplifier. All this is yours at a price well within your means.

Easily Operated Recorder. Anyone can make records with the **Knight 7**. There's no trick to it at all! Just place blank record disc on turntable, set control knob for "recording," lower the cutting head—and there you are. You can record singing, speaking, or instrumental performances. You can make recordings of your favorite radio programs. A fine quality Crystal cutting head, a built-in recording level indicator, and a powerful 78 RPM balanced motor-turntable assembly assure you of perfect records every time. The high-grade Astatic hand-type microphone provides amazingly true-to-life tonal fidelity.

Seeburg Automatic Record Changer. You can play back your own records immediately after cutting, and you can play all standard 10- and 12-inch commercial recordings with the splendid record-playing equipment built into the **Knight 7**. The new 1941 Seeburg Automatic Changer takes fourteen 10-inch or ten 12-inch records at one loading to give you almost a full hour of glorious, uninterrupted entertainment. Has wide-range crystal pickup. True-tracking crystal pickup assures greatest fidelity and long record life.

Powerful Two-Band Radio. For perfect radio entertainment, the **Knight** Phono-Radio-Recorder incorporates a powerful two-band Superhet receiver. Tunes 5.7 to 18.3 MC for thrilling Short-Wave reception of foreign and domestic programs; and 540 to 1600 KC for exceptionally enjoyable reception of American and Canadian standard Broadcast stations. The big $7\frac{1}{2}$ " x $3\frac{1}{8}$ " Slide-Rule dial has a separate scale for each band. Built-in Electric Eye shows you exactly when stations are correctly tuned. You'll enjoy tuning the **Knight 7**. You'll thrill to the effortless way in which it picks up every program on both Broadcast and Short-Wave bands. You'll agree that you couldn't want a finer radio receiver.

Newest Superhet Circuit. Licensed by RCA and Hazeltine, the **Knight 7** Superhet circuit incorporates every desirable feature for the finest performance. Tubes used are: 6SA7 as Mod.-Osc. (dual-purpose); 6SK7 as IF Amp.; 6SQ7 as Det.-AVC-1st Audio (triple-purpose); 6F6G as Power Output; 6U5 as Electric Eye and Recording Level Indicator; 6SQ7 as Microphone Amplifier and Detector; 5Y3G rectifier. Extra features include: full Automatic Volume Control; continuously Variable Tone Control; powerful three watts undistorted output; individual coils on each band; connections for Television and Frequency-Modulation adapters. Every 1941 radio feature is included to bring you the utmost in tuning convenience, powerful reception, wonderful tone and complete radio enjoyment.

Stirring Tone Quality. You'll thrill to the full-voiced reproduction of every radio program and the exceptionally faithful tone of all recordings. A special concert-size 10-inch Electro-dynamic speaker gives you actual broadcast studio tone quality. The full three watts output is perfectly handled and reproduced as rich, vibrant tone.

Built-In Magna-Beam. Here's 1941's newest antenna system. Does away forever with trailing aerial and ground wires. Just plug in and play.

Home Broadcasting. Use the handy Astatic microphone for home broadcasting thrills. You can make announcements through the powerful amplifying system. You can also cut in and add voice to radio programs. There are dozens of uses for this wonderful entertaining feature.

Deluxe Console Cabinet. A fitting complement to the magnificent **Knight** instrument it houses. Available in your choice of matched walnut or gleaming mahogany finish. Beautifully proportioned and most luxuriously styled. With split-top hinged lid. Measures: $35\frac{1}{2}$ " x $31\frac{1}{2}$ " x $17\frac{1}{2}$ ". Note the charming authentic Hepplewhite design, the accuracy of detail, and the fine proportion of this cabinet masterpiece. You'll be proud to own it.

Complete with Recording Accessories. The **Knight** Phono-Radio-Recorder is supplied complete with tubes in the console illustrated above. Includes: 1-Astic hand microphone, 1-cutting and 2-playback needles, and six 6" recording blanks. For 110 volts, 60 cycle, AC. Shpg. wt., 110 lbs.

B10587. Walnut finish.

B10588. Mahogany finish.

Value, \$154.95.
NET PRICE, EACH, \$82.50.
NET PRICE, LOTS OF 3, EACH

\$78.50

RADIO THRILLS with these Instruments!



Knight 12 TUBE PHONO-RADIO-RECORDER

Radio's ultimate achievement! The magnificent four-way instrument deluxe which represents the culmination of years of radio progress! So versatile—so glorious—so thrilling that it represents the full realization of everything you've wished for! Here is absolutely the most luxurious instrument America has ever seen—and it comes to you at a price so modest it will surprise you!

Four Deluxe Instruments in One. There are dozens of new thrills waiting for you in this **Knight 12 Tube Deluxe Phono-Radio Recorder**. There's 1941's finest Recorder so that you can make your own records from microphone or "off-the-air." There's 1941's premiere Automatic Record Changer for unbelievably luxurious record reproduction. There's a mighty 12 tube (including electric eye and rectifier) 5 band Radio Receiver to bring you an entirely new conception of world-wide radio enjoyment. And there's a sensational new Home Broadcaster with endless possibilities for amusement. It's the last word in Home Entertainment!

Perfected 1941 Recorder. Make your own records of the whole family—of friends—of the children. Sing—speak—or play, and have a permanent record of every sound. Record programs "off-the-air" too—and add recordings of outstanding broadcasts and favorite programs to your record library. Anyone can operate this amazing recorder. Simply set control knob, lower cutting head on blank disc—and there's your record. A splendid magnetic cutting head, deluxe 78 RPM balanced motor-turntable unit, and built-in recording level indicator give you unsurpassed facilities for making records of outstanding quality. The pre-eminent Seeburg Recording-Record Playing assembly built into the **Knight** de luxe is the standard of quality by which all other equipment must be judged.

Automatic Record Changer. Enjoy the luxury of almost a full hour of uninterrupted phonograph entertainment provided by the Seeburg Automatic Record Changer. Takes fourteen 10-inch or ten 12-inch records at one loading. Employs wide-range Crystal pickup for high-fidelity reproduction.

Radio's Richest Tone. On radio or phonograph, the tone quality of the deluxe **Knight 12** is so rich, so full-voiced, so gloriously realistic—that you'll take pride in it always. The mighty 12-inch Concert Dynamic Speaker reproduces every program with tonal fidelity that will captivate you.

Superlative 5 Band Radio. Here's a powerful 5 Band Superhet radio receiver bringing the whole world of radio to your command. In addition to ever-enjoyable reception of all standard Broadcast American and Canadian programs on the 540-1630 KC range and all Police Calls on the 2200-7000 KC channel, the **Knight 12** deluxe affords a new kind of extremely reliable Short-Wave tuning. Covers 9.45 to 9.77 MC for 31 meter stations, 11.65 to 11.95 MC for 25 meter stations, and 15.05 to 15.35 MC for 19 meter stations. Band-s-p-r-e-a-d tuning on these international Short-Wave bands, plus RF on all bands for remarkably increased sensitivity, means that you can tune foreign stations as regularly and dependably as locals.

Mighty Superhet Circuit. Dozens of features—too many to list in full—are provided for your fullest enjoyment. RCA and Hazeltine licensed Superhet circuit uses tubes as follows: 6AB7 as RF Amp.; 6SA7 as Conv.; 6SK7 as IF Amp.; 6SQ7 as 2nd Det.-AVC (dual-purpose); 6SK7 as 1st Audio; 6J5GT as Driver-2nd Audio; 6SK7 as Inverter-2nd Audio; 2-6F6G as Push-pull Power Output; 6SQ7 as Microphone Amp.; 6U5 as Electric Eye and Recording Level Indicator; 5U4G rectifier. Includes RF on all bands, four-position Tone Control, tremendous 6.5 watts undistorted output (10.5 watts maximum); double Bass Compensation, Bass Booster; individual coils on each band; Automatic Volume Control; connections for Television and F-M, etc. Here are all the features of the most expensive custom-built radio!

Automatic Tuning. Tune your favorite local stations just by pushing a button; push-buttons provided for any six selected stations. Has big $4\frac{1}{2}$ " x 11" Slide-Rule dial with Short-Wave bands s-p-r-e-a-d out. Plus built-in rotatable "Magna-Beam" antenna which can be "tuned" to stations perfectly to obtain the best possible reception.

Set Complete. The **Knight 12 Tube de luxe Phono-Radio-Recorder** is presented in a master console cabinet of fine walnut veneers rubbed to a high lustre. Measures 36" x 37" x 18". Supplied complete with tubes, microphone, recording needle and six $6\frac{1}{2}$ " recording blanks. A magnificent instrument you'll be proud to own! Your Complete Home Entertainer for years to come! For 110 volts 60 cycles, AC. Shpg. wt., 149 lbs. Code CHAMP.

B10575

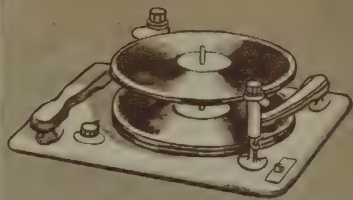
Value \$197.50.

NET PRICE EACH, \$103.50.

NET, LOTS OF 3, EACH.....

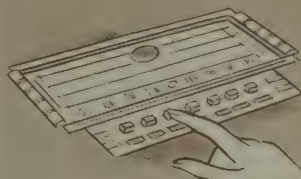
\$98⁵⁰

FOR DE LUXE ENTERTAINMENT



AUTOMATIC RECORDER-CHANGER

Make your own records! Play records automatically! The new Seeburg Record-o-Matic is the surest, and easiest-to-operate unit ever made. You can make your own records in a jiffy—just by lowering cutting head and setting a single control. You can play records automatically—for almost a full hour of glorious, uninterrupted entertainment.



5-BAND RADIO

The magnificent five-band tuning range of the **Knight 12** with a stage of RF on each band brings you superb Short-Wave reception of Europe, South America, the Orient—thrilling Police calls—and powerful coast-to-coast standard Broadcast reception. There's never been anything like it! The world is yours with the de-luxe **Knight 12**!



COMPLETE HOME ENTERTAINMENT
from Radio or Phonograph
AT AMAZING LOW COST!



Knight 5 TUBE PHONO-RADIO

There is something new under the sun—and it's this unusually clever new **Knight 5 Tube** (with rectifier) Phonograph-Radio. For now you can enjoy both fine radio reception and rich, faithful phonograph entertainment—at a price even lower than you'd expect to pay for an ordinary radio alone. Here is the whole range of musical pleasure for even the most modest purse. Tune your favorite radio programs, or — at the flick of a switch — play enjoyable recordings of swing, sweet, symphonic, or vocal music. Don't deprive yourself of the added joy of phonograph records.

Brilliant Phono Tone. Only the finest phonograph equipment is used in the **Knight 5**. The Audio Amplifier has been especially designed for rich fidelity. The powerful self-starting rubber-cushioned rim-drive phono motor operates steadily at 78 RPM. The special tangent-head Crystal Pickup is built for correct tracking with minimum of record wear. Plays both 10" and 12" recordings. A convenient needle cup and a snap-on pickup arm rest are ingeniously molded right into the handsome cabinet top. All recordings are reproduced through the amplifying system and speaker of the radio set.

Superhet Radio Circuit. The radio portion of the **Knight 5** is built around a very efficient Superhet circuit licensed by RCA. Employs the newly developed 150 ml tubes to give you 7-tube efficiency: 12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT. You can tune all of your favorite radio programs as well as upper channel Police calls; tuning range covers complete standard Broadcast band from 535 to 1720 KC. You'll enjoy tuning with the handsome full-vision molded tuning dial that's conveniently placed for easy operation. The special heavy-duty type PM Dynamic speaker handles full 1½ watts output with pleasing fidelity; assures you of enjoyable reproduction from both radio and records.

Built-in "Magna-Beam." There's nothing else like the "Magna-Beam" antenna for real convenience. No aerial—no ground—no trailing wires. Just plug in and play. You can move the **Knight 5** Phono Radio anywhere in your home—and it's always ready to play instantly.

Plastic Cabinet Beauty. This strikingly beautiful plastic design merits an "Academy Award." Its smooth-flowing lines, its louvre speaker grille, its streamlined beauty are the last word in style and grace. Choose the soft Ivory or rich Walnut finish—each is a delight to see. Cabinet measures 9¾" x 12¾" x 6½"—ideal for table top use (see p. 29).

Complete Home Entertainment. There's never a dull moment with the **Knight 5**. You can choose entertainment from the vast store of modern recordings, or you can hear programs on the air. Either way, the **Knight 5** brings you always enjoyable performance.

Set Complete. The **Knight 5** Tube AC Phono-Radio is offered complete with tubes in the beautiful cabinet pictured at left. For operation from 110-120 volts, 60 cycles, AC. Shpg. wt., 15 lbs.

B10514, Walnut Finish. Value, \$27.50. **\$1385**
NET EACH, \$14.65
NET PRICE, LOTS OF 3, EACH, \$13.85
B10515, Ivory Finish. Value, \$28.95. **\$1495**
NET EACH, \$15.50
NET PRICE, LOTS OF 3, EACH, \$14.95

Knight 4 TUBE PHONO-RADIO

Never before a "buy" like this! If you've always wanted a radio-phonograph but have shied away from expensive models—here's your chance. For now, at an amazing price, you can enjoy the whole world of music from both radio and records with this new **Knight 4 Tube Radio-Phonograph**. Quality has not been sacrificed; finest component parts are used throughout, and advantageous features are built-in. In short, this is the miracle value of 1941!

Splendid Phono Performance. Plays all 10" or 12" records with remarkably fine tonal quality. The heavy-duty self-starting motor maintains constant speed of 78 RPM. An offset head Crystal pickup brings out the best in all records. Needle pressure is less than 3 ounces—assuring longer record life. Other features include pickup armrest and conveniently placed phono motor switch. You get high-grade phonograph components throughout for maximum phonograph enjoyment.

New Superhet Circuit. For splendid radio performance the **Knight 4** incorporates a new RCA and Hazeltine licensed Superhet circuit employing two multi-purpose tubes for added efficiency. This 4-tube circuit (with rectifier) employs 12SA7 as Conv.-Osc. (dual-purpose); 12SQ7 as triple-purpose Det.-AFC-1st Audio; 50L6GT as Beam Power Output; and 35Z5GT rectifier. Full 1.5 watts output is beautifully handled by the special new 5" PM Dynamic speaker and reproduced as rich, enjoyable tone.

Gets Police Calls. The tuning range of the **Knight 4** covers 540-1730 KC for powerful reception of all standard Broadcast American and Canadian programs plus interesting Police calls. A big new Airplane Dial (3" x 2¾") is clearly calibrated in both meters and kilocycles.

Extra Value Built In. Full-acting Automatic Volume Control maintains constant volume level on all radio programs and prevents fading or blasting. Finest component parts are used throughout radio and phono for more stable performance. You'll get a new conception of what value means when you see and hear this new **Knight Radio-Phonograph**.

Distinctive New Cabinet. Here's a new idea in cabinet styling. The entire cabinet is of heavy wood construction beautifully covered with rich brown-figured leatherette. Measures 11" long, 11¼" deep, 9" high.

Set Complete. The value-packed **Knight 4** Tube Radio-Phonograph is supplied complete with tubes. For operation from 110 volts, 60 cycles AC. Shpg. wt., 14 lbs.

Code: CHORD. **\$1295**
B10552. Value, \$24.95.
NET EACH, \$13.85
NET, LOTS OF 3, EACH, \$13.85
5-TUBE MODEL. Same as above, but has additional tube for more power, Tone Control, built-in "Magna-Beam" Antenna, and carrying handle. Wt., 16 lbs. Code: QUICK
B10549. Value, \$32.50. **\$1695**
NET EACH, \$17.95
NET, LOTS OF 3, EACH, \$17.95

COMPLETE ELECTRIC PHONOGRAPHS



The ALLEGRO

This superb new instrument is designed exclusively for fine reproduction of Phonograph Records. Everything required is built into the one handsome plastic cabinet—turntable, pickup, speaker, and amplifier. There's nothing more to add. Just plug into any handy electric outlet and enjoy thrilling recorded entertainment, the kind you'd expect only from a much higher-priced instrument.

Quality Phono Equipment. Employs the very latest self-starting induction type silent phono motor for unvarying 78 R.P.M. speed. Has a well-balanced 8-inch turntable that accommodates all 10" or 12" records. New Astatic tangent-head Crystal Pickup brings out everything in the record grooves; assures minimum record wear. Extra phono features include: clever snap-on arm-rest for Pickup; molded-in needle cups; convenient start-stop switch; volume control. Everything you need for luxurious phonograph operation is included.

Splendid Tone Quality. You'd scarcely believe that so low-priced an instrument could render such rich, life-like tone quality. The beauty of tone, the clear output, will please every music-lover. Special audio amplifier circuit uses 2 tubes; built-in P.M. Dynamic speaker of new design reproduces full volume clearly and smoothly. You'll be surprised at the fine reproduction of your favorite records over this wonderful little instrument.

New Beauty of Design. You'll admire the sleek, plastic-molded cabinet of rich, walnut-brown. Measures $9\frac{3}{4}" \times 12\frac{3}{4}" \times 6\frac{1}{2}"$. All controls are conveniently placed for ease of operation.

The "Allegro" is offered complete with tubes. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 16 lbs. Code: CHANT.

B16473.
NET PRICE, EACH, \$10.75.
YOUR NET PRICE, LOTS OF 3 EACH.....

\$10.25



The SONATA

Here's the De Luxe version of the **Knight** Complete Electric Phonograph in a striking new style presentation. A wonderful phonograph instrument of exceptional record-reproducing quality, built to give enduring, enjoyable entertainment. Never before have you been able to buy a complete de luxe quality instrument at so low a price.

Phono at its Finest. The phonograph motor is the newest rubber-cushioned rim-drive type. It maintains 78 R.P.M. speed regardless of line voltage fluctuations. It has a specially balanced 9-inch felt-covered turntable which will take both 10-inch and 12-inch records. The newest Astatic offset-head Crystal pickup is used for the fine frequency response.

Special Amplifier. The built-in two-tube amplifier has been carefully designed for amazingly high power output and a remarkable fidelity of tone. Matched perfectly to the amplifier is a special heavy-duty $5\frac{1}{2}"$ PM Dynamic Speaker designed to handle full volume with a purity of tone that will bring out the best in your recordings.

New Beauty. An entirely new type of cabinet is provided with the "Sonata." Incorporates violin contours with acoustically-proper speaker grille and sound chamber to afford the best tonal results. The cabinet is made of choice walnut veneers, hand-rubbed to a high lustrous finish. Plays both 10-inch and 12-inch records with lid closed. Includes automatic stop, needle cup, arm-rest, volume control, motor switch and jewel "on" indicator. Size: $14\frac{1}{4}" \times 10\frac{1}{4}" \times 14\frac{1}{4}"$.

The "Sonata" is offered as illustrated, complete, ready for operation from 110 volts, 60 cycles A.C. Shpg. wt., 16 lbs. Code: TONAL.

B16475.
NET PRICE EACH, \$18.65.
NET PRICE, LOTS OF 3, EACH.....

\$17.85



Knight CHANGER-AMPLIFIER

You've asked for it—and here it is—a wonderful new **Knight** Electric Phonograph with built-in genuine R.C.A. Automatic Record Changer. It's the instrument for marvellously luxurious recorded entertainment with every feature music lovers could ask for. And it's completely self-contained in a handsome portable case—there's nothing else to add.

R.C.A. Record Changer. For continuous entertainment without annoying interruptions. Plays eight 10" or seven 12" records automatically—while you sit back, listen, and enjoy. When loaded with 12" records, it will provide 35 minutes of uninterrupted entertainment.

De luxe Phono Equipment. Has a genuine R.C.A. Crystal Pickup with frequency range of 70-7000 C.P.S. for amazing fidelity of tone. Pickup is top-loading type for greater ease in changing needles. Rim-drive, self-starting phono motor maintains steady 78 R.P.M. speed. Controls include combination Volume Control and on-off switch; Tone Control; separate motor switch. **Powerful Amplifier.** The built-in amplifier is designed for finest fidelity reproduction. Develops undistorted 3 watts output to furnish plenty of power for all recordings; amplifier is inverse-feedback type. With specially designed $6\frac{1}{2}"$ -inch Dynamic speaker. **Attractive New Case.** The complete phonograph is built into a neat airplane-luggage finished case with handsome striping. Size: $16\frac{1}{2}" \times 16\frac{1}{2}" \times 14\frac{1}{2}"$. Plays all records with lid closed. Supplied complete with tubes. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 40 lbs. Code: BRIDE.

B16273.
NET PRICE EACH, \$39.75.
NET, LOTS OF 3, EACH.....

\$37.95



Knight PLAYER-AMPLIFIER

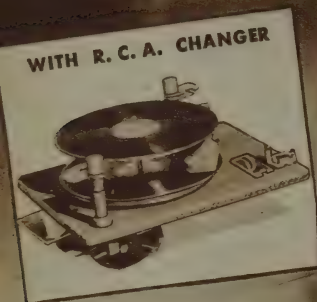
An entirely complete, self-contained Record Player and Amplifier combined. Designed solely for high-quality reproduction of phonograph records. Meets a wide demand for use in homes, schools, fraternities, dormitories, advertising agencies, churches, clubrooms, etc. Delivers ample volume to cover a large-sized room. For use wherever 110 volts, 60 cycles, A.C. is available. **De Luxe Amplifier.** The 3 tube inverse-feed-back amplifier develops astonishing fidelity and volume. Uses special matched heavy-duty 5-inch Dynamic Speaker which reproduces with a clarity and faithfulness of tone that brings out the full beauty of each record. **Phono Components.** The latest rubber-cushioned rim-drive self-starting motor is included. Maintains steady 78 R.P.M. speed; has 9-inch felt-covered turntable; plays both 10-inch and 12-inch records. Has Astatic offset-head Crystal pickup for high-fidelity reproduction, with proper needle tracking and minimum wear on records. Includes volume control and AC switch; automatic stop; needle-cup; pickup arm-rest; "on-off" jewel, etc. **Attractive Cabinet.** The **Knight** Player-Amplifier is fittingly presented in a handsome new walnut cabinet, fashioned of choice walnut veneers, hand-rubbed to a rich, lustrous finish. Plays both 10-inch and 12-inch records with lid closed. Cabinet measures: $9\frac{1}{4}" \times 14\frac{1}{2}" \times 12\frac{1}{2}"$. Complete with tubes. This is one of the most popular of all record-playing instruments; offered at a sensationally low price that can't be equaled elsewhere. For operation on 110 volts, 60 cycles, A.C. Shpg. wt., 19 lbs. Code: MOTIF.

B16476. Complete **Knight** Player-Amplifier.
NET PRICE, EACH, \$17.95.
NET, LOTS OF 3, EACH.....

\$16.95



AUTOMATIC RECORD-CHANGING PLAYER UNITS



ALSO WITH
WIRELESS OSCILLATOR



TABLE MODEL CHANGER

Convert your radio set or amplifier into a luxurious Record-Reproducing instrument with this deluxe Automatic Record Changer Unit. Requires only simple connection to radio set or amplifier. Incorporates latest built-in RCA Automatic Record Changer. Plays seven 12" or eight 10" records automatically for a full one-half hour's continuous entertainment. Has heavy-duty dependable, self-starting 78 RPM motor; latest top-loading RCA Crystal pickup with automatic needle ejector and cup. Offset needle head reduces record wear. Presented complete in beautiful table cabinet fashioned of fine woods with front panel of select butt walnut veneer and side panels of hardwood. Measures 21" wide, 16 1/2" deep, 12 1/4" high. For 110 volts, 60 cycles AC. Complete as illustrated. Shpg. wt., 46 lbs.

B16487. NET PRICE.....

\$31.50

TABLE MODEL WITH OSCILLATOR

An alternate choice to unit above. Incorporates all features described but has extra convenience of "Wireless" operation. Includes a high-quality built-in oscillator which does not require any connection when operated with radio set; may be used as far as 50 feet from radio. For 110 volts, 60 cycles AC. Shpg. wt., 48 lbs.

B16488. NET PRICE.....

\$36.75

Cabinet Only. Table model cabinet as described above available without changer. Supplied with blank panel. Clearance of 5 1/2" above motor-board and panel, and 5 1/2" below. Shipping weight, 26 lbs.

B16485. NET PRICE.....

\$11.65

CONSOLE MODEL CHANGER

An unusually luxurious presentation of a complete RCA Automatic Record Changer Unit in a handsome console model cabinet. May be used with any radio set or amplifier for complete phonograph entertainment. Has RCA Changer (see description above), top-loading Crystal pickup, etc. Supplied in a beautifully designed cabinet with storage compartment to hold eight 12-inch record albums. Splendidly built of fine woods; has butt walnut front panel and choice hardwood sides. Measures 31" high, 21" wide, 16 1/2" deep. Quickly connects to any AC set. For 110 volts, 60 cycles AC. Shpg. wt., 60 lbs. (Albums not included.)

B16490. NET PRICE.....

\$37.50

CONSOLE MODEL WITH OSCILLATOR

B16491. As above, but with "Wireless" Oscillator eliminating need for connection to radio set. Offers extra convenience; for use with any radio receiver.

NET PRICE.....

\$42.75

Console Only. Available separately without record-playing equipment. Has 5 1/2" clearance above and below motor board. With blank panel. Shpg. wt., 40 lbs.

B16486. NET.....

\$18.50

Fig. A

RECORD ALBUM CABINETS



Fig. B

TWO-SHELF ALBUM TABLE

Fig. A. Here is the answer to the record-storage problem—a beautifully constructed and practical two-shelf table for holding record albums. Top of table may be used for lamp, radio, pottery, etc. A fine piece of furniture that will look at home in the finest room. Sturdily built of choice woods, rubbed to a lustrous finish. Beautiful walnut finish on gunwood legs and select plywood top, sides, and back. Holds 16 full-sized 12" record albums; has partitions to hold albums rigid and prevent record warping. Measures 31" high; table top is 19" wide by 15" deep. Own this beautiful table now—give your precious records the care they deserve. Available at a modestly low price you can afford. Shpg. wt., 34 lbs. (Albums not included.)

B16482. NET PRICE.....

\$9.75

SINGLE-SHELF MODEL

Fig. B. An unusually attractive single-shelf record album table that is a masterpiece of fine cabinetry. Gracefully designed with fluted pilasters and charmingly tapered legs, and executed in choice woods—gunwood legs, heavy plywood top, sides, and back. Available in either beautiful walnut or rich, gleaming mahogany. Holds up to 8 full-sized 12" albums; has sturdy partitions to keep albums rigid. Measures 27" in height and 17" by 16" across top. You'll enjoy the convenience of having all your records easily accessible and always in good order. Besides, you can use the table top for a lamp, small phono-radio, knick-knacks, etc. A lovely piece of furniture for your home. One of our most popular album cabinets. An absolute essential for the storage and care of your record library. Shpg. wt., 25 lbs. (Albums not included.)

B16481. Walnut finish.

B16483. Mahogany finish.

NET PRICE EACH.....

\$6.95

DELUXE END-TABLE MODEL

Fig. C. This lovely and practical end-table album holder will make a charming ensemble alongside any lounge chair. The unusually large top surface (27" long by 16" deep) will accommodate a table lamp, small phono-radio, books, etc. Cabinet measures 26" high. Beautifully designed and constructed of choice woods finished in 5-ply veneer on top and sides. Has lovely, shaped top edges and carved apron; legs are gracefully shaped and carved in a luxuriously rich effect. A truly beautiful and practical piece of furniture. May be had in either walnut or mahogany to match your decorating scheme. Album shelf is screwed on (no nails used) for greater strength and durability. Accommodates 10 record albums; has partitions to prevent record warpage. Shpg. wt., 25 lbs. (Albums not included.)

B16480. Walnut finish.

B16479. Mahogany finish.

NET PRICE EACH.....

\$9.95

Fig. C

Knight PLAYERS



DELUXE WIRELESS PLAYER

This new Deluxe Knight "Wireless" Record Player will give you splendid phonograph record reproduction when used with any radio. Requires absolutely no connection to radio set. May be placed anywhere in the room and will reproduce all records through radio set amplifying system. Incorporates latest deluxe features including self-starting 78 RPM motor; offset head Crystal pickup of highest quality; full 9-inch turntable to accommodate all 10- or 12-inch records; two needle cups; push-button motor switch, and arm rest for pickup. Supplied with two tube built-in quality "wireless" oscillator. The Knight Deluxe "Wireless" player is presented in the beautiful roll-top walnut case illustrated above. Lid closes over all records, including 12-inch size, to reduce surface noise and add to your enjoyment. Case measures: 13 $\frac{1}{4}$ " wide, 10 $\frac{1}{2}$ " deep, 7" high. For operation from 110 volts, 60 cycles, AC. Shpg. wt., 12 lbs.

B16466. Knight Deluxe "Wireless" Player.
NET EACH, \$13.95.
NET, LOTS OF 3, EACH.....

\$13.25

DELUXE WIRED PLAYER

In the same cabinet illustrated above, we also offer the Knight Deluxe Record Player as a wired model for connection to any radio set. Plays all recordings through the radio set amplifying system with the full tone and volume ordinarily obtained from your radio. Deluxe features include: constant-speed 78 RPM rim-drive motor; new offset-head Crystal pickup; 9-inch turntable for all standard 10- and 12-inch recordings; push-button motor switch and volume control; two needle cups; pickup rest. Supplied in walnut case with lid that closes over all records, exactly as described for model above. For operation from 110 volts, 60 cycles, AC. Shpg. wt., 12 lbs.

B16465. Knight Deluxe Wired Record Player.
NET EACH, \$11.35.
NET, LOTS OF 3, EACH.....

\$10.95



LOW-COST WIRELESS PLAYER

Here's the lowest-priced high-quality "Wireless" Record Player made. This new Knight Player requires no connection to radio; plays all records through radio amplifying system. Operates perfectly with any AC set. May be used as far as 50 feet from receiver. Will not interfere with your regular operation of radio when Record Player is not in use. Includes latest features for fine reproduction of all 10- and 12-inch recordings. Has new constant-speed, self-starting 78-RPM phono motor; 9-inch turntable; offset head Crystal pickup; convenient pickup arm rest; and needle cup. Presented in an attractive walnut-finished streamlined case as illustrated above. Dimensions: 12" wide, 10 $\frac{1}{4}$ " deep, 4 $\frac{1}{4}$ " high. Place it on top of your radio cabinet, on an end table, or use it with one of the record album tables shown on opposite page. For 110 volts, 60 cycles, AC. Shpg. wt., 10 lbs. Complete with two tubes for built-in oscillator, and instructions.

B16468. Knight Low-Cost "Wireless" Player.
NET EACH, \$11.35.
NET, LOTS OF 3, EACH.....

\$10.95

LOW-COST WIRED PLAYER

An alternate choice in a fine new low-cost Knight Record Player, similar to the model above, but designed for direct connection to any AC-operated radio set. Includes such desirable features as: constant-speed 78 RPM rim-drive motor; offset-head Crystal pickup; 9-inch turntable to play all 10- or 12-inch records; combination on-off switch and volume control; built-in needle cup, etc. This attractively-priced Record Player will give you hours of delightful entertainment. Supplied complete in walnut-finished case as illustrated above. Case measures 12" wide, 10 $\frac{1}{4}$ " deep, 4 $\frac{1}{4}$ " high. For operation from 110 volts, 60 cycles AC. Shpg. wt., 10 lbs.

B16467. Knight Low-Cost Wired Record Player.
NET EACH, \$8.10.
NET, LOTS OF 3, EACH.....

\$7.65



LOW-COST PORTABLE PLAYER

This unusually well-built Knight Portable Record Player will bring you hours of enjoyable recorded entertainment at exceptionally low cost. It may quickly and easily be attached to any radio set or amplifier to provide brilliant reproduction of all 10- and 12-inch standard phonograph records. Recordings are reproduced through radio set amplifying system with all the tone quality and volume your radio set gives you on broadcast programs. Latest features are built in for best performance. Sturdy, self-starting 78 RPM phono motor maintains constant speed and runs evenly without wavering. The high-quality crystal pickup has unusually wide tonal response and brings out all that has been put into the record grooves. Additional features for convenience in operation include smooth-acting volume control, pickup arm-rest, and handy built-in needle cup. The entire unit is built into an attractive leatherette-covered case with hinged lid. Lid closes over all records, including full 12" size, and thus reduces annoying surface noise. Case measures 15" wide, 12" deep, 6 $\frac{1}{4}$ " high. Has a convenient carrying handle so that you may easily take the Knight Player anywhere. Requires only a minute to make the simple connection to a radio set and to plug into electric outlet. Will operate with any AC radio set. You can't beat this excellent quality portable player for convenience, dependability, and low cost. Adds the extra pleasure and enjoyment of dependable phonograph record reproduction inexpensively, easily. For operation from 110 volts, 60 cycles AC. Shpg. wt., 10 lbs.

B16470. Knight Low-Cost Portable Player.
NET EACH, \$8.95.
YOUR NET PRICE, LOTS OF 3, EACH.....

\$8.45



NEW PLASTIC WIRELESS PLAYER

What a thrill you'll get from this brand-new Knight "Wireless" Record Player! Not only because it's unusually attractive in its sparkling streamlined plastic case, but also because it gives you complete facilities for phonograph entertainment through any AC radio set—yet without any connections to the radio. What's more, this Knight Player is priced 'way down even though it's built of the very finest component parts throughout. Will operate up to 50 feet away from radio set. Has finest features for convenient, enjoyable performance: 78 RPM self-starting rim-drive phono motor; new offset-head fine quality Crystal pickup; 2 tube oscillator; and many useful features such as handy built-in push-button "on-off" switch, snap-on pickup arm-rest, etc. Presented in an especially handsome walnut-brown plastic molded case; size: 9 $\frac{5}{8}$ "x12 $\frac{5}{8}$ "x4 $\frac{1}{4}$ ". For operation from 110 volts, 60 cycles, AC. Shpg. wt., 13 lbs.

B16472. Knight Plastic "Wireless" Player.
NET EACH, \$9.95.
NET, LOTS OF 3, EACH.....

\$9.70

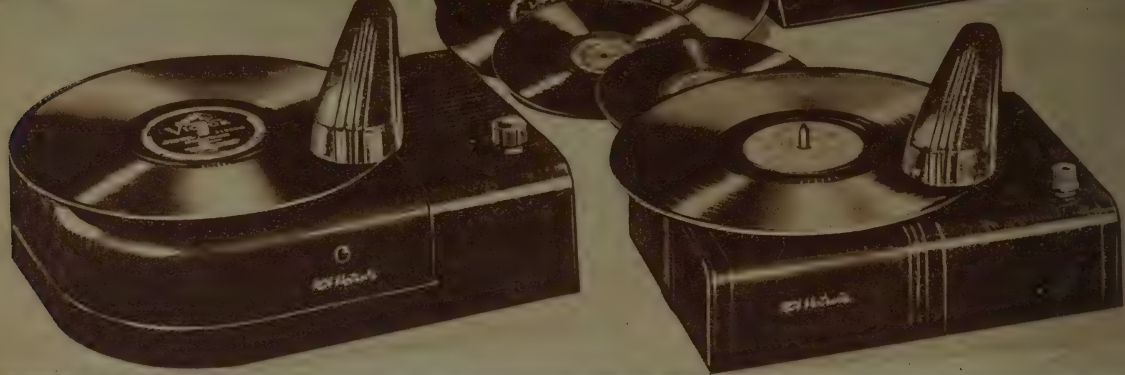
PLASTIC WIRED PLAYER

In same plastic cabinet as above, but designed for direct connection to any AC-operated radio set. Includes all features such as Crystal pickup, Volume Control, self-starting motor, etc. Connects in a jiffy to any AC radio. Our outstanding Record Player value! For 110 volts, 60 cycles, AC. Wt., 11 lbs.
B16471. Knight Plastic Wired Player.
NET EACH, \$6.30.
NET, LOTS OF 3, EACH.....

\$5.95



SPECIAL RCA-VICTOR PHONO OFFER!



RCA WIRELESS RECORD PLAYER

What a treat this is for music lovers! A genuine RCA-Victor Wireless Record Player, six 10-inch Victor Black Seal records, and a handy Record Rack—all offered at a price far below what you'd expect to pay for a good record player alone. It's a special buy you can't afford to miss. **Wireless Record Player.** RCA-Victor's Model VA-21—the new miracle phonograph that plays records through any radio set without connection to radio. May be operated at a distance of 30-50 feet from radio; plays all 10- and 12-inch recordings with the full tone and volume regularly obtained from your radio set. Plugs into any 110 volt, 60 cycle AC outlet and is ready to operate instantly. Features new RCA "feather-touch" Crystal Pickup with true-tracking tone arm; RCA constant-speed 78 RPM synchronous type motor; and combination volume control and on-off switch. In beautiful rich brown bakelite cabinet of functional modern design. Measures 5' high, 12 1/2" wide, 8 3/4" deep. May be placed on any convenient end table or book-case, on top of radio cabinet, or anywhere within 30 to 50 feet of radio set. **New Black Seal Records.** Six choice selections—favorite light-classical numbers—performed by Victor Concert Orchestra and similar well-known groups. Double-faced 10-inch records. **Record Rack.** Of sturdy pressed-paperboard, attractively finished in rich walnut color. Holds 24 records. Shpg. wt., 18 lbs. Record player operates from 110 volts, 60 cycles, AC.

B16461. Special Combination Offer Complete.

NET PRICE.....

B16460. Model VA-21 Wireless Record Player only. Less records and record rack. Shpg. wt., 13 lbs.

NET.....

\$11.44

\$10.09

RCA LOW-COST WIRED PLAYER

Another special offer! The popular RCA Model R-93F Wired Record Player plus six double-faced Victor Black Seal records plus handy RCA record rack—all at a smashing low price! Here's recorded music for all America—at a price anyone can afford. **Fine Wired Record Player.** Easily connected in a few minutes to any AC radio set equipped with phonograph connection. Plays all records through radio's amplifying system with the tone and volume your radio gives you regularly. Features RCA "feather-touch" Crystal pickup, constant-speed 78 RPM manually-started RCA phono motor, combination volume control and on-off switch. One of RCA-Victor's most popular record players. In handsome dark brown bakelite case measuring 11" x 9" x 5". You can place it on any convenient table or on top of radio cabinet. Turns your radio into a combination radio-phonograph. **New Black Seal Records.** Six favorite selections. Latest 10-inch double-faced recordings by Victor Concert Orchestra and similar groups. "The music you want... when you want it." **Record Rack.** Handy new record rack that holds 24 records. Made of rigid pressed-paperboard, finished in deep walnut color. Will keep your records safe and always accessible. Shpg. wt., 17 lbs. Record player operates from 110 volts, 60 cycles, AC.

B16463. Special Combination Offer Complete.

B16462. Model R-93F Wired Record Player only. Less records and record rack. For 110 volts, 60 cycles, A.C. Shpg. wt., 12 lbs.

NET.....

B7594. Switch and cable for connecting above Record Player to any AC radio set. NET.....

\$6.63

\$5.28

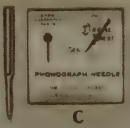
59c



A



B



C



D



E



F



G

RCA PHONO NEEDLES

Fig. A. RCA-Victor Steel Needles. Noted for minimum wear on records. 100 in each package. Very popular. **B7613. Soft Tone.** **B7605. Half Tone.** **B7607. Loud Tone.** **B7608. Full Tone.** 10 Pkgs. for 75c. Per Pkg..... **10c**

Fig. B. RCA-Victor Red Seal Needles. Developed especially for playing Red Seal records. **B7619. Pkg. 50. NET.....**

20c

Fig. C. Eldeen Classic. A high-grade phonograph needle that is good for 2000 playings. A quality needle tipped with a precious metal that minimizes wear on record. Gives perfect reproduction with perfect safety.

B7623. NET PRICE.....

35c

Fig. D. Actone Transcription Needles. Shadowgraphed type. Will not harm records; give good tone quality. Well-made; will preserve record life. Extremely popular, low-priced needles. Package of 100.

B8132. NET PRICE.....

38c

POPULAR SAPPHIRE NEEDLES

B2600. Fig. E. Recoton. An amazing high-fidelity sapphire needle that plays from 6,000 to 10,000 records. Finest sapphire point that's kind to your records. Won't scratch or wear records. Ideal for automatic changers. Shpg. wt., 2 oz. **NET.....**

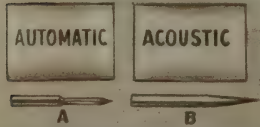
\$3.60

B2601. Fig. F. Knight. A genuine sapphire needle exceptionally low priced. Plays up to 2500 records. Full tone without record wear. 2 oz. **NET.....**

69c

B2622. Fig. G. Walco. The original sapphire needle. Plays over 2500 records without record wear. Reduces surface noise. Shadowgraphed. **NET.....**

98c



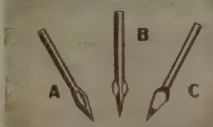
RECOTON NEEDLES

Fig. A. Automatic. A hand-turned steel needle designed for record-changer requirements. Plays 10 to 15 records with very low surface noise. Provides excellent tone quality without excessive record wear. Pkg. of 30. Shpg. wt., 6 oz. **B8022. NET.....**

23c

Fig. B. Acoustic. Brass-plated steel alloy needle for acoustic or electric phonographs. Ideal for portable phonos. Assures exceptional volume and thoroughly enjoyable tone quality. Plays 10 records. Pkg. of 30. Wt., 6 oz. **30 B8023. NET.....**

20c



CHANGER NEEDLES

For Automatic Coin-Operated Record Changer machines. **Fig. A. Eldeen Maestro Point.** Good for 2000 playings. Minimum record wear. **B7609. EACH, 45c.** **Lots of 12, EACH.....**

38c

Fig. B. Gerrett Miracle Point. Round point; minimum record wear; 2000 playings. **B7608. EACH, 30c.** **Lots of 12, EACH.....**

25c

Fig. C. Pormo Elliptical. Over 2000 playings with excellent tone quality. **B7620. EACH, 50c.** **Lots of 5, EACH.....**

45c



KAKTI SHARPENER

This clever device sharpens points of fiber, cactus, or thorn needles as good as new. Works by hand; anyone can use it effectively. Saves you money on needles because you can sharpen needles and use them over and over again. Genuine Peter Grey sharpener. Shpg. wt., 6 oz. **B8030. NET.....**

\$1.32



NON-METALLIC NEEDLES

Fig. A. Greythorne Needles. New Peter Grey Needles particularly designed for Crystal Pickup. Ideal for high fidelity recordings. Absolutely fine tone quality. Assure perfect performance. Pkg. of 15. **B8025. NET.....**

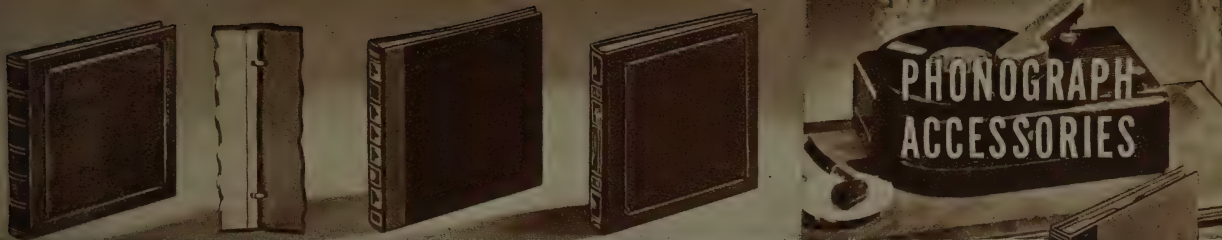
33c

Fig. B. Kakti Needles. Famous Peter Grey long playing needles. Use them for your most valued records. Assure glorious tone quality; play with absolute safety. Will not scratch. A favorite of music lovers the world over. Pkg. of 12. **B8131. NET.....**

29c

Fig. C. Bamboo Needles. Good quality, finely pointed, properly polished. Designed for minimum record wear and exceptionally fine tone quality. Assure you of excellent performance. Pkg. of 100. **B8130. NET.....**

45c



PHONOGRAPH ACCESSORIES

DE LUXE TYPE FLAT-OPENING ALBUMS

A new deluxe flat-opening type album. Has a solid wood back and slotted steel holder plates; heavy brown kraft envelope pockets are eyeletted and strung on a wide metal collar, giving them a free and easy swing. Flat opening feature means extra record protection. Album has dark-brown fabrikoid covering with neat design on back, stamped in gold. Holds twelve 12-inch records. An unusually attractive album. 3 lbs. **B15660. NET.....99c**

B15661. As above but holds twelve 10-inch records. **NET.....87c**

FLAT-OPENING ART LIBRARY ALBUMS

A very beautiful album with the flat-opening feature. Has rich-looking binding of fabrikoid in your choice of red morocco-grained covering, or in blue. Backs are elaborately stamped in genuine gold leaf. Holds 12 records. Wt., 4 lbs. A fine album value.

For 12-inch Records.

B15662. Red
B15663. Blue
NET, EACH.....\$1.35

For 10-inch Records.

B15664. Red
B15665. Blue
NET, EACH.....\$1.10

GOTHIC DESIGN LOOSE-LEAF ALBUMS

Contains 15 pocket envelopes which are eyeletted and which can be removed from the album at will. Gives you flexibility in making up your record assortments. Covered with heavy fabrikoid; has fabrikoid gold-stamped back. In red or blue. Wt., 4 lbs.

For 12-inch Records.

B15666. Red
B15667. Blue
NET, EACH.....\$1.10

For 10-inch Records.

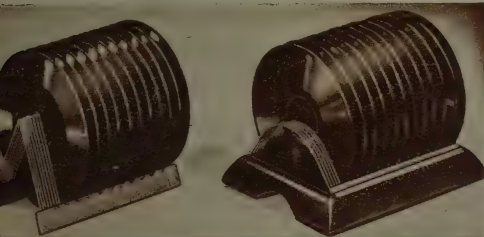
B15668. Red
B15669. Blue
NET, EACH.....98c

TWO-TONE LOOSE- LEAF ALBUMS

New 12-pocket album with easy-operating loose-leaf three-ring binder. Opens flat. Permits you to remove record envelopes at will. Has metal tear-proof protectors around pocket holes. Heavy fabrikoid binder is beautifully finished in gold-stamped dark brown back and handsome tweed-effect finish on front and back covers. Holds twelve 12-inch records. Wt., 3 lbs.

B15671. NET.....65c

B15670. As described at left, but holds 12 ten-inch records. Same two-tone finish and loose-leaf ring-binder feature. Wt., 2½ lbs. **NET.....51c**



POPULAR RECORD HOLDERS

ECONOMY MODEL

An exceptionally low-priced Record Rack that accommodates fifty 10- or 12-inch records. Durably constructed, neatly finished wood base. Cotton-covered wires will not harm records. Helps you to keep your records filed in an orderly manner and protects them from injury. Has handy index numbers for arranging records systematically. At our very low price you can easily afford this indispensable record filing-aid. No record-collector should be without one. 3 lbs. **B16097. NET.....95c**

WALNUT MODEL

A de luxe walnut-finished record rack accommodating fifty records of 10- or 12-inch size. Has latex rubber-covered wires which prevent records from being scratched. Attractive, smoothly-finished wood base. Supplied with handy index card and stickers for filing records systematically. Wt., 5 lbs. **B16095. NET. \$1.95**

STEEL BASE MODEL

Same as above, but has unbreakable pressed steel base. Wt., 6 lbs. **B16096. NET. \$1.45**



NEW LOOSE-LEAF RECORD ALBUMS

ECONOMY ALBUM

The lowest-priced loose-leaf record album you've ever seen. Keeps your records safe and orderly so that you can always find them. Has 12 record pockets reinforced with metal eyelets. Pockets may be removed or replaced in a jiffy. Durable fabrikoid cover finished in rich wine-color. Album is flat-opening type. Ring-binder built to stand up under constant use. 3 lbs.

B15672. For 12-inch records. **NET.....49c**

B15673. For 10-inch records. **NET.....39c**

CORK GRAINED COVER

A strikingly beautiful album finished in matching cork-grain material, with stiff back covered with brown swirl cloth. Attractive gold-stamped design on back. A loose-leaf album holding 12 records in heavy kraft envelopes, reinforced with metal eyelets. Album lies flat when open. Shpg. wt., 3 lbs.

B15674. For 12-inch records. **NET.....79c**

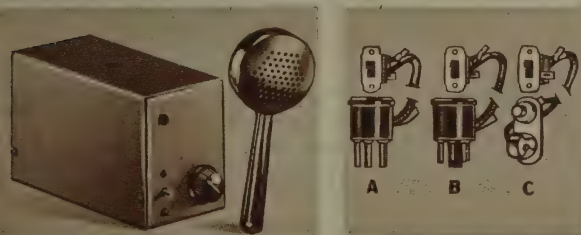
B15675. For 10-inch records. **NET.....65c**

PADDED COVER

One of the finest record albums made. Full cloth-bound in rich brown swirl material with heavy padded covers and a metal reinforced, gold-stamped, rounded back. A de luxe album for the finest record library. 12 heavy envelopes with reinforced metal eyelets on smooth-acting loose-leaf three-ring binder. Opens flat. Shpg. wt., 4 lbs.

B15676. For 12-inch records. **NET.....\$1.10**

B15677. For 10-inch records. **NET.....90c**



RCA "MYSTERY" PHONO OSCILLATOR & MIKE

With this ingenious new RCA Oscillator you can easily operate any record player through your radio without any connections or wiring changes in radio set. Just plug output of phono pickup into oscillator and tune your radio for record reproduction with all the tone and volume of a radio program. Or you can connect the handy microphone supplied, to the oscillator, and "broadcast" through your radio set. Oscillator uses a 12A7 tube which is supplied. In small metal case, 6¼" x 3" x 3¼". Has handy switch for changing from radio to phono or back as desired. Microphone is high-quality single-button type. Complete with instructions, tube, and hand mike. Built with typical RCA thoroughness and quality. An exceptional value at our low price. Offers unusual applications that will more than repay the small cost. For operation from 110 volts AC or DC. Shpg. wt., 4 lbs. **B1599. NET.....\$2.95**

PHONO ADAPTERS

Enable you to connect phono-player or pickup to radio.

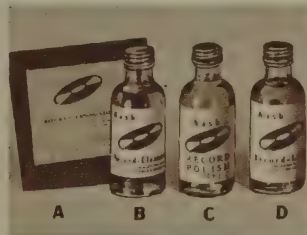
B8087. Fig. A. For sets using 5 prong tube (no grid cap) as det. or first audio.
B7595. Fig. A. For type 6H6 as second detector.
B8088. Fig. B. For types 6C5, 6J5, etc., as first audio.
B8089. Fig. C. For sets using screen grid cap tube, such as 6J7, 6R7, 6K7. **NET EACH.....71c**



RECORD LABELS

Attractive gummed-back paper labels for home or professional recordings. Have space for title, performance, etc.

B8031. 50 for 25c. **\$1.75**
500 for.....



RECORD ACCESSORIES

Fig. A. Record Cleaning Cloth. Specially treated felt cloth removes grease from grooves of phonograph records; extends record life. **15c**

B8061. 4" x 4". **NET.....26c**

Fig. B. Nash Record Cleaner. Cleans, renews and provides smooth lubrication for the needle in the grooves. Non-inflammable. 2 oz. **B8063. NET PRICE.....21c**

Fig. C. Nash Record Polish. Restores the original appearance of records; also cleans. 2 oz. **B8064. NET.....21c**

Fig. D. Nash Record Lube. Removes surface needle tension; reduces noise and wear. Adds to record life and tone quality. 2 oz. **B8071. NET PRICE.....21c**

B8065. Nash Turntable Lubricant. Especially designed for lubricating phonograph motors and turntables of all makes. Keeps motor running smoothly. Wt., 2 oz. **NET.....21c**



PORTABLE RECORD CASE

Permits you to carry phonograph records conveniently and safely. Sturdily made; has handsome airplane luggage material covering and hinged top lid. With strong chrome clasp. Felt lined to assure extra protection. Holds 25-12" records. A sturdy-built case that will give long service. Wt., 8 lbs. **B15680. NET.....\$1.29**

B15683. Same as above, but holds 25-10" records. A well-built case at a very low price. Shpg. wt., 7 lbs. **NET.....\$1.15**

B15681. Same as above but holds 50-12" records. Heavily felt-lined for extra protection. Wt., 10 lbs. **NET.....\$2.45**

B15682. Felt-lined case as above, but holds 50-10" records. Wt., 9 lbs. **NET.....\$1.98 31**

Knight LEADS WITH AMERICA'S LOWEST



FEATURES:

- Big Airplane Dial
- 5-Inch P.M. Speaker
- Full-Acting A.V.C.
- Tunes Police Calls
- Low-Drain Circuit
- Batteries Enclosed



R.C.A. &
HAZELTINE
LICENSED

Knight 4 TUBE 1.4 VOLT BATTERY SUPERHET

Here's not only America's lowest-priced quality Farm Radio, but the most economical battery set ever built! It cuts operating costs right in half, yet it's the equal of many ordinary five and six tube sets for pleasing tone quality, long-distance reach and powerful, dependable performance. It's a remarkable performer for the big savings it makes on battery cost. And you couldn't ask for a finer-looking Farm Radio! Here's the last word in attractive plastic design—and the cabinet's big enough to hold a 350-400 hour battery pack neatly, so you're not bothered with trailing wires, etc.

Economy Plus! The **Knight 4** sets an amazing economy record. "A" drain is only .2 amps.; "B" drain is only 8 MA. Uses 60% less current than older type battery sets. With the self-contained "AB" Power Pack you can play the **Knight 4** from 350-400 hours before replacing batteries! (Or you can get 750-850 hours of service with an external battery pack—see below.) Think of it — get wonderful radio enjoyment at just a few cents per day. You can't beat the **Knight 4** for economy!

Superhet Circuit. The powerful Superhet circuit with extended tuning range covers 540 to 1740 K.C. for enjoyable reception of all American and Canadian standard Broadcast programs, plus the popular 1712 K.C. Police Channel. The new circuit is R.C.A. and Hazeltine licensed and uses the latest 1.4 volt low-drain tubes as follows: 1A7GT as Conv.; 1N5GT as I.F.; 1H5GT as Det.; 1A5G as Power Output. This efficient circuit actually delivers five and six tube efficiency.

Self-Contained Battery Pack. The **Knight 4** is offered with the latest type of super-efficient single-unit "AB" battery power pack that's good for 350-400 hours of service before requiring replacement. Set has special plug for connecting power pack. The entire pack fits neatly into the plastic-molded cabinet. There's nothing more to add. Everything is self-contained and ready to bring you marvelous, economical radio entertainment. (External 750-850 hour pack is also available.)

Outstanding for Tone. You get more than just good looks, power and economy from the **Knight 4**. You're in for a real listening thrill and you'll enjoy to the fullest the rich, natural tone of this remarkable Farm Radio. The special 5-inch P.M. Dynamic Speaker with extra-heavy 7 ounce magnet, reproduces each program with splendid clarity, and a tonal brilliance and depth that will be a source of delight and pride to you always.

All These "Extra" Features! There's full-acting Automatic Volume Control to prevent fading and to keep volume uniform on all programs. The new Airplane Dial is easy to tune, with big numerals marked in kilocycles and meters. "On-off" indicator always shows you whether set is in operation. Quality parts—the same as used in the finest radios—are used throughout for quality performance.

1941 Plastic Styling. You couldn't want a neater-looking cabinet. It's beautifully styled, with soft flowing lines featured throughout; has louvre-type grille; plastic-molded in rich and attractive mahogany finish. Measures 12" long, 8" high, 7" deep.

Knight 4 Complete. The **Knight 4** Tube 1.4 Volt Superhet is offered complete with tubes, as described, but less "AB" pack. Shpg. wt., 10 lbs.

B10541.

Value \$18.95.

NET PRICE EACH.....

\$10⁴⁵

B10546. As above, but complete with 350-400 hour "AB" pack that fits in cabinet. Shpg. wt., 19 lbs.

NET PRICE.....

\$13.05

B10547. The **Knight 4** complete with B16150 external type 750-850 hour "AB" pack. Shpg. wt., 32 lbs.

NET PRICE.....

\$14.10

B10026. Replacement 350-400 Hour "AB" pack. 10³/₄"x6¹/₂"x2³/₄", 9 lbs. **NET.....**

B16150. Replacement 750-850 hour "AB" pack. 15³/₄"x7"x4¹/₄", 21 lbs. **NET.....**

\$3.65

(When the power line comes—electrify the **Knight 4** with Porta-Power—see opposite page.)

PRICED FARM RADIOS!



R.C.A. LICENSED

Knight 4 TUBE 1.4 VOLT WOOD TABLE MODEL

- 6-Inch P.M. Speaker
- Full-Acting A.V.C.
- Big Clock-Type Dial
- Superhet Circuit
- 750-850 Hour Pack
- Tunes Police Calls

There's real radio enjoyment in store for you—and economical enjoyment, too—because this new **Knight 4** Farm Radio is a real "Ben Franklin" for thrift! And it's a go-getter, too, a truly powerful performer that you can depend upon in any location. We know you'll size up the generously proportioned table model cabinet as the most handsome Farm Radio you've ever laid eyes on. And you'll be just as enthusiastic about its performance, too. But most of all, you'll like the price—and recognize a real Farm Radio value!

Economy Leader. Lowest first cost—lowest upkeep—that's what you get in this **Knight 4**. "A" drain is only .25 amperes; "B" drain is only 11 milliamperes. The single-unit dry "AB" power pack that fits right inside the cabinet, is guaranteed to last for at least 750 hours (in most cases works up to 850 hours actually) before requiring replacement. You get a full season of radio enjoyment—with the set playing every day—at a cost of less than two cents a day! Now that's real Farm Radio economy!

Latest Superhet Circuit. You've got a real radio thrill coming when you tune this **Knight 4**. Covers the full 535-1720 K.C. range powerfully, to bring you all American and Canadian standard Broadcast programs, as well as the popular 1712 K.C. Police Channel. The Superhet circuit is licensed by R.C.A. and actually achieves six tube efficiency by the use of the following tubes: 1A7GT as Conv.-Osc. (dual-purpose); 1N5GT as I.F.; 1H5GT as Det.-A.V.C.-1st audio; 1Q5GT as Power Output. The secret of the better power and performance of the **Knight 4** is in the use of the multi-purpose tubes which deliver five and six tube set results.

Remarkably Lifelike Tone. There's a full 6-inch P.M. Dynamic speaker of the latest design used in the **Knight 4**. Has an extra-heavy magnet; makes a world of difference in the tone quality. Reproduces every program with a natural depth of tone that will delight you always.

Additional Features. Automatic Volume Control is incorporated to prevent fading and to keep volume steady on all programs. Tuning is delightfully easy with the entirely new type of giant Clock-face Dial that's clearly calibrated in kilocycles. There's an "on-off" indicator included that shows you when the set is in operation.

Striking Cabinet Design. Good-taste is written all over the fine cabinet we've chosen to house the **Knight 4**. Choice walnut veneers are used throughout. Ends are softly rounded; speaker grille opening is simple but beautiful; dial escutcheon is walnut plastic molded. The cabinet is generously proportioned and has space for conveniently holding the complete "AB" power pack. The cabinet measures: 17" long, 9¼" deep, 9½" high.

Knight 4 Complete. The **Knight 4** Tube 1.4 Volt Superhet is offered complete with tubes, as described above, but less "AB" pack. Shpg. wt., 13 lbs.

B10520.

Value \$22.95.

NET PRICE EACH.....

B10526. As above, but complete with 750-850 hour "AB" pack. Shpg. wt., 44 lbs. **NET PRICE**.....

B16150 Replacement 750-850 hour "AB" pack. 15¼"x7"x4¼". 21 lbs. **NET**....

(When High-Line comes, electrify with Porta-Power, described at right.)

\$1245

\$16.10

\$3.65

PLAY BATTERY SETS FROM A-C CURRENT with PORTA-POWER



Here is a new type of Power Unit that will double the utility of any 1.4 volt, 2-3 volt, or 6 volt farm radio. Permits you to play any of these sets direct from 110 volts A.C. Easy to connect; just plug in and play. If the high lines have come into your locality, or if you have moved to where AC current is available, you'll want one of these Porta-Power units to replace your radio batteries with AC. Works with real efficiency and dependability.

FOR 1.4 VOLT SETS

TYPE U

Permits you to operate any 1.4 (or 1.5) volt midget or portable radio from 110-130 volt, 50-60 cycle current. Eliminates batteries entirely. For use with sets having up to 5 tubes. Fits right into battery compartment. Size is only 2"x3½"x6". Has sockets for every type of battery plug. Insert battery plugs into Porta-Power and play your radio from 110 volts AC. Has sulfanide rectifier for "A" current; type 6P5GT tube for "B" current. Supplied with 6 foot AC cord, plug and "on-off" switch. Shpg. wt., 5 lbs

B9168. NET.....\$4.41

HEAVY-DUTY MODEL

TYPE G. Works same as above but for larger home and portable sets with 4, 5, and 6 tubes. Size 3½"x5"x6". More rugged than Type U. Shpg. wt., 7 lbs.

B9169. NET.....\$5.58

FOR 2.3 VOLT SETS

TYPE L

Porta-Power for 2, 2.5 or 3-volt radios, using from 4 to 8 tubes. Eliminates all "A," "B," and "C" batteries. Works from 110-120 volts, 50-60 cycles AC. Delivers: 67.5, 90, 112.5 and 135 volts of "B"; from 4.5 to 22.5 adjustable "C." Split "C" is obtained from external resistors. Just plug in and play any 2, 2.5 or 3-volt radio receiver from 110 volts AC. Size: 3½"x5"x6". With 6 foot cord, plug, and "on-off" switch. Shpg. wt., 7 lbs.

B9170. NET.....\$5.85

TYPE P

This Porta-Power unit converts practically any 4 to 10 tube 6-volt battery radio for operation direct from 105-125 volts, 50-60 cycles AC. Delivers two separate 6 volts at 1.5 amperes each. May be connected in series for 12 volts, or in parallel for 3 amperes. Exceptionally quiet in operation. Supplied with cord, plug and switch. Size: 3½"x5½"x6¼". Shpg. wt., 8 lbs.

B9171. NET PRICE.....\$8.20

FOR 6 VOLT SETS

For inexpensive Farm Radio Record Player attachment see next page. Get 33 additional entertainment at low cost.



R. C. A. & HAZELTINE
LICENSED

Knight 5 TUBE 1.4 VOLT RADIO

- Slide-Rule Dial
- With Tone Control
- 6-Inch PM Speaker
- Low-Drain Tubes
- Full AVC Action
- Houses Battery Pack

A winning new Farm Radio that sets a new "high" for economical operation, big power, and thrilling lifelike tone. Sets a new note in Farm Radio appearance, too. For economy and dependability, you couldn't make a wiser Farm Radio purchase!

Thriftest Ever. Yes—there's nothing like the Knight 5 for real economy. "A" drain is only .25 amperes; "B" drain is only 8 milliamperes. When used with the inexpensive "AB" pack listed below, you get 750 to 850 hours of efficient service before you need to replace battery. Actually costs you less than two cents a day to play!

Easy to Tune. You'll like the easy-tuning, big, edge-illuminated 6 1/4"x2 1/4" Slide-Rule Dial. Covers the full 540 to 1730 KC range to bring you all American and Canadian standard Broadcast stations, plus the popular 1712 KC Police Channel.

Powerful New Circuit. The super-efficient RCA and Hazeltine licensed Superhet circuit uses the latest battery-saving 1.4 volt low-drain tubes as follows: 1A7GT as Mod.-Osc.; 2-1N5GT as 1st and 2nd I.F.; 1H5GT as Det.-AVC-1st Audio; 1A5GT as Power Output. Full-acting AVC prevents fading and keeps volume uniform all ways. Variable Tone Control lets you emphasize bass or treble to suit your own personal taste. Has "on-off" indicator to show you when set is in operation.

Wonderful Tone. You'll hear the difference over ordinary Farm Radios in the fine fidelity reproduction of the special 6-inch PM Dynamic Speaker. Each program comes in with a rich reality that is bound to delight you.

Set Complete. The Knight 5 Tube 1.4 Volt Superhet is presented in a beautiful new semi-upright table model cabinet, fashioned of lovely horizontally-grained walnut, with dark-toned beaded base. Measures: 19 1/2" long, 14 1/4" high, 8 1/2" deep. Has space for battery pack. Comes complete with tubes but less "AB" pack. Shpg. wt., 20 lbs. Code: STATE.

B10558. Value, \$32.50.
NET PRICE EACH.....

B10569. As above, but complete with 750-850 Hour Ray-O-Vac "AB" pack. Shpg. wt., 40 lbs. Code: MAJOR.

NET PRICE EACH.....

B16150. Replacement "AB" pack. 15 1/2"x7"x4 1/4". 21 lbs. **NET.....**

5 TUBE CONSOLÉ MODEL

The Knight 5 is also presented in deluxe Console Cabinet. Has all of the features of the table model, but for even finer tone includes a full 10-inch PM Dynamic speaker. Beautiful console is built of rich, figured walnut veneers. Size: 38 1/2" high, 25" wide, 14 1/2" deep. Here is one of the year's best console Farm Radio values—a powerful, economical, beautiful performer. With tubes, less "AB" pack. Shpg. wt., 55 lbs. Code: SWIFT.

B10581. Value, \$59.95.
NET PRICE EACH.....

B10589. Complete with Ray-O-Vac "AB" pack. Shpg. wt., 75 lbs. Code: RIDGE.

NET PRICE EACH.....

5 TUBE CHASSIS ONLY

Chassis only, with all features as described above, with 10" PM Speaker. Size: 10" wide, 3 1/4" deep, 7 1/4" high. With tubes, knobs, escutcheon, etc. Less battery. Makes a wonderful replacement for obsolete battery radios. An outstanding value you won't want to miss. Shpg. wt., 15 lbs. Code: SWING.

B10567. Value, \$27.95.
NET PRICE EACH.....

Add \$3.65 for "AB" pack.



RECORD PLAYER FOR BATTERY RADIOS

Now you can get double pleasure from your Farm Radio with this efficient new Record Player. Enjoy extra entertainment by playing your favorite records through any Battery Farm Radio without any additional drain on battery—without adding to operating cost! Amazingly low-priced—yet it brings you new entertainment, new enjoyment.

WORKS WITH ANY BATTERY RADIO

It's easy to connect; phonograph connecting cable is provided—makes hook-up without complications or bother. Phonograph motor is of the latest heavy-duty spring-wound type—doesn't drain radio battery. Has Crystal pickup, volume control, radio-phono switch and speed regulator. 8-inch turntable plays both 10-inch and 12-inch records. Works with any Battery Farm Radio to bring you extra entertainment at a very low cost. Includes easy-to-connect, 6-foot cable. Beautifully presented in a compact cabinet of selected walnut veneers with attractive roll-over front and back effect. Measures: 13 1/4" long, 4 1/2" high, 8 1/4" deep. Shpg. wt., 9 1/4 lbs.

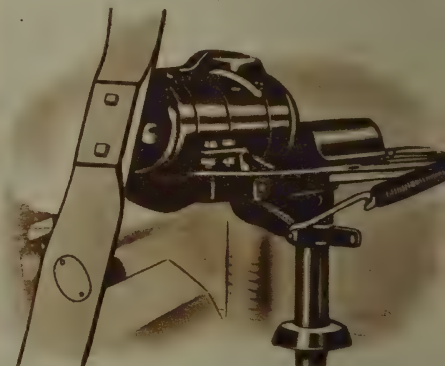
B16495.

NET

PRICE.....

\$895

For a complete selection of phonograph accessories, including needles, albums, etc., see pages 30-31.



FREE POWER WITH A WINDCHARGER

Now! Get FREE power from the wind with the finest, most reliable Windcharger ever made. This new, perfected Rurlpower Windcharger offers true economy in storage-battery charging—costs nothing to operate. Delivers up to 16-20 amperes of direct 6-volt current. Employs a newly-designed, exclusive heavy-duty generator. Has automatic cut-out; automatic propeller speed governor. Generator has oil-sealed ball-bearings; cuts in at 320 RPM. Has airplane type propeller with copper-sheathed leading edges. Ball-bearing Turntable maintains double-tension contact; permits free rotation of power head. Turntable brake automatically corrects position for any wind. Easily started and stopped with simple pull-down wire attached to swivel-collar. To install, mount Windcharger and 10-foot tower on unobstructed roof or in high, open place; attach wires from generator outlet to storage battery—the wind does the rest. Quickly and efficiently charges any 6-volt Storage "A" Battery; also suitable for limited lighting service with heavy-duty batteries such as shown on page 70. The finest Windcharger device made today. Stoutly built not only to give you dependable charging but to stand up against the elements for enduring service.

B16170. Rurlpower Windcharger complete. Includes heavy-duty generator and head-mechanism, wired and ready to mount; 10-foot Tower, Propeller, Tail Vane, Ammeter on panel, Cut out, Battery clips, etc. Complete instructions supplied. Shpg. wt., 75 lbs.

List Price, \$29.95.
NET PRICE WITH 10 FOOT TOWER.....

(When purchased with any 6 Volt Knight Radio, Windcharger sells at only \$17.50.)

\$1975



HERE'S THE FARM RADIO FOR POWER & ECONOMY!



R. C. A. & HAZELTINE LICENSED

Kníght 5 TUBE 2 BAND 1.4 VOLT BATTERY RADIO

- Foreign Reception
- 6" PM Speaker
- Big Slide-Rule Dial
- Full-Acting AVC
- 2 I. F. Stages
- Low-Drain Superhet

You get all of the features and quality of the finest all-electric city radios, plus the startling economy of the newest 1.4 volt tubes in this brand-new **Kníght 5** Tube 2 Band Farm Radio! It's an outstanding battery radio triumph! Thrilling Two-Band radio reception . . . stirring, rich-voiced tone quality . . . almost unbelievable economy . . . refreshing new cabinet beauty—all this is yours at the lowest price ever asked for a comparable Farm Radio having all of these fine features.

Foreign Reception! Most sets at this price give you only one-band reception. But the **Kníght 5** brings you overseas programs direct, stirring news reports and Foreign broadcasts that will give you a real thrill. Covers 5.75-18.1 MC for the most important Foreign and domestic Short-Wave channels. Tunes 535-1730 KC for coverage of all American and Canadian standard Broadcast stations, including the popular 1712 KC Police Channel. There's a real listening thrill waiting for you in this fine new model.

Giant Slide-Rule Dial. It's easy and pleasant to tune the big $8\frac{1}{2}" \times 4\frac{1}{4}"$ Slide-Rule Dial. Big calibrations are easy to read. There's a separate scale for each band, and the horizontal-traveling pointer makes station logging easy and accurate on every program you tune.

Rugged Superhet Circuit. The powerful, dependable RCA and Hazeltine licensed Superhet circuit is the key to the superior performance of the **Kníght 5**. Uses the latest low-drain 1.4 volt tubes as follows: 1A7GT as Osc.-1st Det. (dual-purpose); 1P5GT as IF; 1N5GT as IF; 1H5GT as 2nd Det.-A.V.C.-1st Audio (triple-purpose); 1Q5 as Power Output. You'll be delighted with the economy of this circuit and with its distance-reach and power. The two I.F. stages develop extreme sensitivity for exceptional Short-Wave reception and dependable Broadcast band tuning.

Amazing Battery Life. Here's the Farm Radio economy you've always wanted. When used with the inexpensive "AB" pack described below, the **Kníght 5** will operate as long as 600 to 700 hours before new batteries are required. Operating cost is actually less than two cents per day! You couldn't ask for greater Farm Radio operating economy.

All These "Extras". Tone quality that will please your ears—made possible by a splendid new 6-inch PM Dynamic Speaker with extra-heavy 3 ounce magnet. Reproduces with glorious quality, so realistic you'll feel you're right in the broadcast studio. Has full Automatic Volume Control, too, that prevents fading and keeps volume uniform on all stations. You'll like the smooth-acting Bandswitch that gives you instant changeover from Broadcast to Short-Wave or return.

Charming Table Cabinet. The **Kníght 5** is fittingly presented in one of the outstanding Farm Radio designs of the year. Generously proportioned, it is fashioned of select, walnut veneers, with horizontally-grained front face trimmed at top and bottom by contrastingly-figured bands. Has softly-curved ends and handsome speaker grille bar treatment. Cabinet has space to hold "AB" pack. Size: $18\frac{3}{4}"$ long, $10\frac{3}{4}"$ deep, $9\frac{3}{4}"$ high.

Set Complete. The **Kníght 5** Tube 2 Band 1.4 Volt Superhet in table model cabinet is offered complete with tubes as illustrated and described. Less "AB" pack. Shpg. wt., 18 lbs. Code: HEART.

B10542. Value, \$34.95.
NET PRICE EACH.....

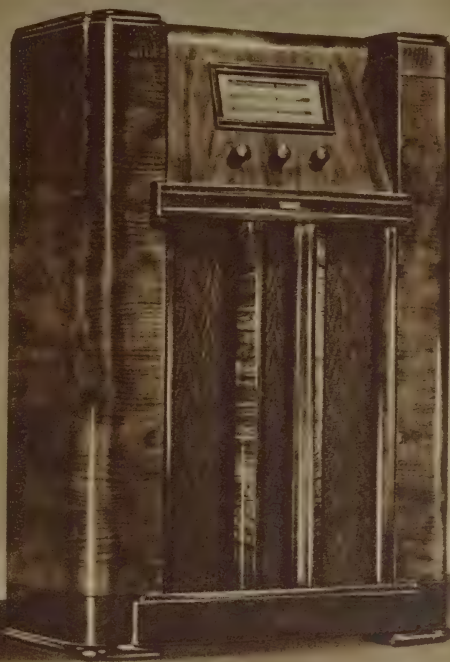
\$18.95

B10544. As above, but complete with 600 to 700-hour "AB" battery pack. Shpg. wt., 38 lbs. Code: CLICK.
NET PRICE EACH.....

\$22.60

B16150. Replacement 600 to 700-hour "AB" battery pack. $15\frac{3}{4}" \times 7" \times 4\frac{1}{4}"$. Shpg. wt., 20 lbs. **NET PRICE**.....

\$3.65



5 TUBE 2 BAND CONSOLE MODEL

The new **Kníght 5** 2 Band Farm Radio is also presented in a deluxe Console cabinet model as illustrated above. Has all of the advanced features described at left. Includes 2-Band Tuning range; Slide-Rule Dial; Automatic Volume Control; 2 I. F. Stages; low battery drain, etc. Incorporates a larger 8-inch PM Dynamic Speaker of the newest design for even finer tone quality. The console is a masterpiece of styling and craftsmanship. Deluxe in every detail, it features richly-grained walnut veneers in contrasting-figured effect. Side pilasters are gracefully rounded; the instrument panel is pleasingly slanted; the speaker grille is executed in a delightful curved-bar arrangement that lends a rich touch to the design. The entire console is hand-rubbed to a high-gloss piano finish. Generously proportioned: $39"$ high, $26"$ wide, $12"$ deep. Shpg. wt., 44 lbs. Code: SWEET.

B10574. Complete with tubes, as described.

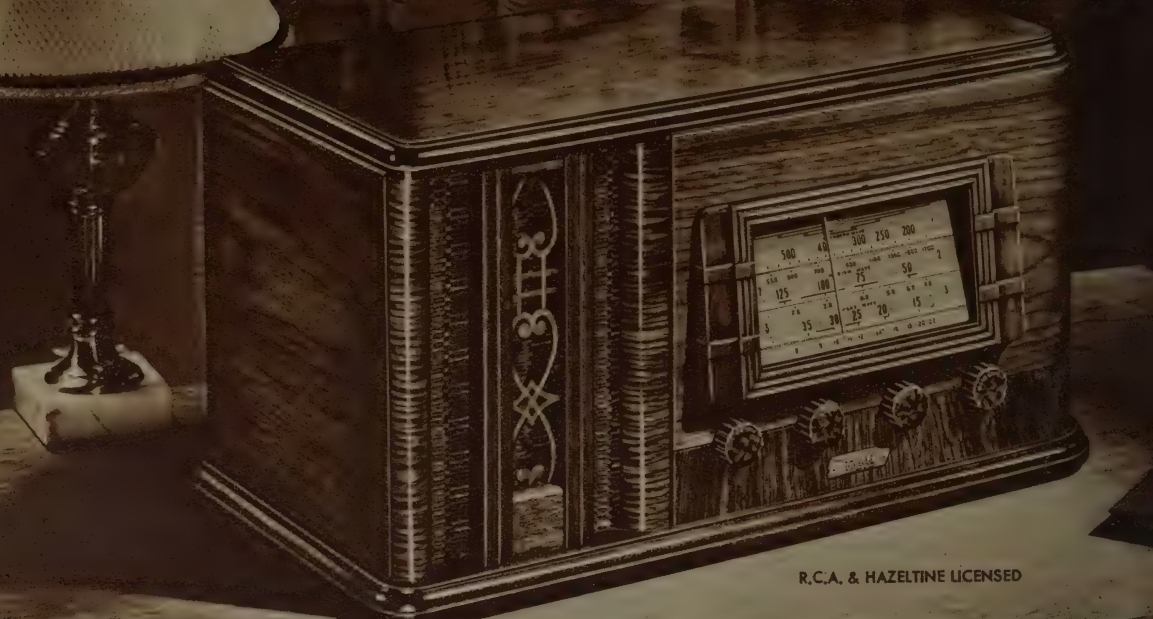
Less "AB" pack.
Value, \$59.95.
NET PRICE, EACH.....

\$31.45

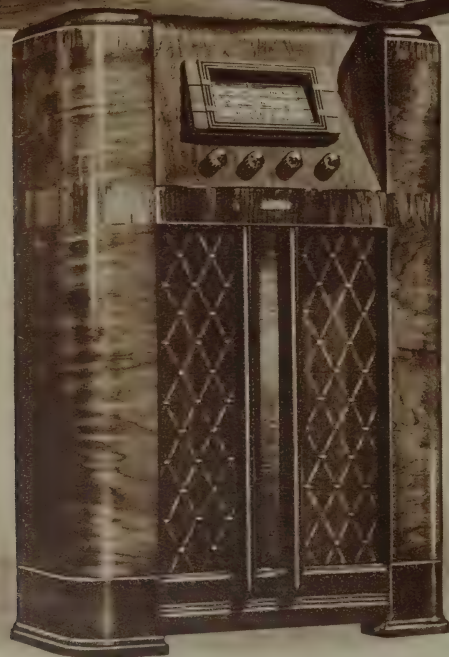
B10576. Complete with 600 to 700 hour "AB" pack. Shpg. wt., 64 lbs. Code: MAPLE.
NET PRICE, EACH.....

\$35.10 35

OUTSTANDING VALUES—Quality Farm Radios!



R.C.A. & HAZELTINE LICENSED



The **Knight** Farm Radios offered on this page are also available in the luxurious console model illustrated above. Fashioned of choice walnut veneers, with gracefully curved pilasters and tilted instrument panel. Size: 38 1/4" high, 25" wide, 12 1/4" deep. Each model has 10" speaker.

6 TUBE 6 VOLT 3 BAND MODEL

We offer the **Knight 6 Tube 6 Volt 3 Band Farm Radio** described at right above, in the attractive new console model shown above. Has all of the fine features described. Complete with tubes but less battery. Shpg. wt., 58 lbs. Code: BRAND.

B10582. Value, \$84.50. **\$43.95**
NET PRICE EACH
B16158. Knight 6 Volt Battery. 42 lbs. **NET \$6.45**

6 TUBE 6 V.-110 V. 3 BAND MODEL

As described at right center, in console illustrated and described above. For operation from 6 volts or 110 volts A.C. Shpg. wt., 60 lbs. Code: BROOK.

B10583. Value, \$86.50. **\$44.50**
NET PRICE EACH

6 TUBE 32 VOLT 3 BAND MODEL

Identical with set described at right but in console model illustrated above. For 32 volts DC operation. Shpg. wt., 55 lbs. Code: MEDAL.

B10584. Value, \$79.50. **\$41.50**
NET PRICE EACH

Knight 6 TUBE 3 BAND 6 VOLT MODEL

Here's a popular one-battery model that will out-perform any other 6-volt radio on the market regardless of price! Has a full Three-Band tuning range; covers 2.24-7.6 and 7.5-24 M.C. to bring you all the thrills of Foreign, aviation, amateur and police Short-Wave; tunes 535-1730 K.C. for powerful coverage of all American and Canadian Standard Broadcast stations. Has all these 1941 features: giant 6"x3" Slanting Slide-Rule Dial—easy-to-tune—with a separate scale for each band; Electric Eye for perfect visual tuning; 1941 R.C.A. and Hazeltine licensed Superhet circuit; Television, F-M, Phono connection; Automatic Volume Control; Tone Control; Separate 2.6 amp. drain. Uses a full 6-inch P.M. Dynamic Speaker for rich bell-like tone quality that compares with the finest of electric type radios. Presented in a beautiful new table model cabinet. Has graceful proportions, with a rich front face of horizontally striped walnut veneers, with contrastingly-grained trim and distinctive speaker grille treatment. Measures: 21 1/2" long, 11" deep, 11" high.

The **Knight 6 Tube** (with rectifier and electric eye) 3 Band 6 Volt Superhet is offered complete as described. With tubes but less 6 volt battery. Shpg. wt., 27 lbs. Code: WORLD.

B10559. Value, \$56.50.

YOUR NET PRICE

B16158. Knight 6 volt 15 plate Storage Battery. 42 lbs. **NET \$29.50 \$6.45**

Knight 6 TUBE 3 BAND 6 V.-110 V. MODEL

This is the radio for you if you're looking for the last word in versatile Farm Radio design. Here's a model that will give you dependable reception either from 6 volts or 110 volts A.C. It's really two radios in one; just flip a switch for operation from either power source. Play it anywhere, and enjoy thrilling Three-Band reception. Tunes 7.5-24 and 2.24-7.6 M.C. for exciting world-wide Short Wave reception of Foreign programs, amateurs, aviation, and police calls. 535-1730 K.C. brings you powerful and enjoyable regular American and Canadian Broadcast stations. Here are the outstanding features: Giant Slanted 6"x3" Slide-Rule Dial for easy tuning; Television, F-M, Phono Connection; continuously variable Tone Control that lets you emphasize bass or treble as you please; Automatic Volume Control to keep uniform Volume on all programs; separate coils for each band; rubber-floated tuning condenser for extra stability. Uses the newest type 6-inch P.M. Dynamic Speaker for flawless total reproduction of the big output of the rugged R.C.A. and Hazeltine licensed Superhet circuit. Offered in the beautiful 1941 table model illustrated and described above.

The **Knight 6 Tube 3 Band 6 Volt-110 Volt Superhet** (with rectifier and electric eye tubes) is offered complete with tubes, but less volt battery. One of the most versatile radios ever built. Plays from battery or electricity. Shpg. wt., 29 lbs. Code: MUSIC.

B10560. Value, \$57.50.

NET PRICE EACH

B16158. Knight 6 volt, 15 plate storage battery. 42 lbs. **NET \$29.95 \$6.45**

Knight 6 TUBE 3 BAND 32 VOLT MODEL

We honestly believe this model to be the finest 32 Volt Radio made today. It brings you all-electric operation, full 3-band reception, rich appearance and fine economy at an astonishingly low price. This **Knight 6** tunes 2.24-7.6 and 7.5-24 M.C. for Short Wave amateur, aviation and police calls, including thrilling programs on all of the important Foreign channels. Covers 535-1730 K.C. for long-distance reception of all American and Canadian standard Broadcast stations. Completely all-electric operation; no batteries required; just plug into any 32 volt D.C. source and play! Uses the latest R.C.A. and Hazeltine licensed 32 Volt Circuit for the equivalent of seven tube radio performance. Total drain is only 34 watts. Features include: giant 6"x3" Slanted Slide-Rule Dial with separate scale for each band for easy tuning; Television, F-M Phono connection; full A.V.C. for uniform volume on all programs; Tone Control for bass or treble emphasis as desired; Beam-Power output for surprising power; etc. Uses a heavy-duty 6-inch Electro-Dynamic Speaker which reproduces with wonderful fidelity. Offered in the attractive table model illustrated above.

The **Knight 6 Tube 3-Band 32 Volt Superhet** (with rectifier) is offered complete as described, with tubes, for 32 volt operation. Shpg. wt., 24 lbs. Code: DRESS.

B10561. Value, \$51.50.

NET PRICE EACH

B10561. Value, \$51.50. **\$26.95**

Knight 4 TUBE AUTO RADIO

A compact Auto Radio that's a real Value Hit! Performs with the best of them! Has what it takes in tonal clarity, volume, and easy operation. And it's priced so low that no car owner need be without an Auto Radio! Anyone can install it quickly and easily; and it fits any car perfectly! No suppressors required—no complicated connections! Just clamp it on where you want it, connect to aerial and battery—and you are ready to enjoy fine radio entertainment.

Easy to Tune. The ingenious slant opening on the dial face gives the driver full view of the easy-to-read "Spot Dial." Large numerals show clearly through the "Spotlight" opening as you rotate thumb-type tuning wheel at right hand side of case.

Latest Circuit. With the Knight 4 you get a wonderful new Super-het circuit, licensed by R.C.A. Uses the following tubes: 6SA7 as Conv.-Osc.; 6SK7 as I.F. Amp.; 6SQ7 as Diode Det.-A.V.C.-1st Audio; 6K6GT as Audio Output. Multi-purpose tubes achieve 6 tube efficiency. We are proud to offer this fine auto radio with its high record of efficient performance.

Fits All Cars. The Knight 4 is completely contained in one attractive, car-taupe, crackle-finished steel case, only $6\frac{1}{4} \times 7\frac{1}{2} \times 4\frac{1}{2}$ ". Comes equipped with special clamp, adapting the set for mounting along edge of dash. (Clamps for mounting on steering column of both old and new cars available at small additional cost; see below.)

Advantageous Features. Other important features include: Full A.V.C. for uniform volume; special Electro-dynamic Speaker of highest quality; rubber-mounted against vibration; 535 to 1600 K.C. range for all standard Broadcast coverage; built-in synchronous vibrator power supply; amazingly economical low 3 ampere drain; fused "A" lead, etc. Only the best quality components are used.

A Wonderful Auto Radio Value. Now everyone can afford reliable Auto Radio entertainment. The Knight 4 is offered as described above, complete with tubes and with special bracket for dash-edge mounting. Shpg. wt., 11 lbs.

Code: IDEAL.

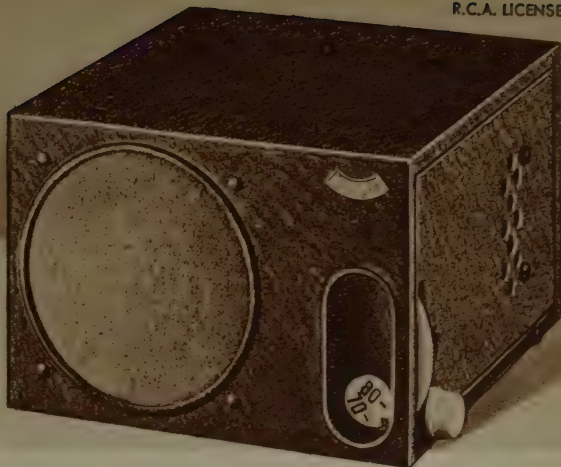
B10525.

NET PRICE, EACH.....

B10650. Special clamp for mounting above set on steering column of older model cars. NET.....

B10651. Special clamp for mounting set on steering column of new cars with gear shift on wheel. NET.....

\$9⁸⁰



LATEST AUTO RADIO FEATURES!

- All-Electric Radio
- Full-Acting A.V.C.
- Dynamic Speaker
- Suppressorless
- New "Spot" Dial
- Thumb Tuning
- Low Drain
- Compact Size

\$9⁸⁰

Self-installed in a jiffy! Furnished with mounting clamp for easy installation anywhere along car dash edge. Can also be had (at small extra cost—see listing at left) with special clamps for mounting on the steering column of both old and new cars.

Knight 7 TUBE AUTO RADIO

Our De Luxe Auto Radio—the finest you can buy at the price! "Tops" for tone quality, power and new features.

Fits Any Car. Completely self-contained in a single taupe-finished all-steel case. Size: $6\frac{1}{2} \times 10\frac{1}{2} \times 6\frac{1}{4}$ ". Easy to mount in any car. Has remote control tuning mechanism.

1941 De Luxe Features. No suppressors required—absolutely noise-free filter circuit. Includes A.V.C.; Tone Control; Bass Boost; R.F. Stage; 3 Gang Condenser. Remarkable for its tuning sensitivity and selectivity—powerful and dependable anywhere you drive.

Latest Circuit. Uses the newest low-drain tubes: 6SK7 as R.F.; 6SA7 as Osc.-Conv. (dual-purpose); 6SK7 as I.F.; 6SQ7 as Det.-A.V.C.-1st Audio (triple-purpose); 6J5GT as Driver; 6K6GT as Output; 6X5GT as Rect. Develops more than 3 watts power Output.

Sparkling Tone. Rich and full tone—the kind you expect from the finest home-type radios—is yours in the Knight 7. The secret's in the flawless reproduction of the special built-in 6-inch Electro-dynamic Speaker. There's no finer tone in auto radio.

Great Car Radio Value. The Knight 7 (with rectifier) is offered complete with built-in speaker, tubes, flexible shafts, tuning mechanism and hardware. Requires either of tuning control heads listed below. Shpg. wt., 20 lbs. Code: REGAL.

B10553. Value \$39.95.

NET PRICE EACH, \$23.95.

YOUR NET PRICE, LOTS OF 3, EACH.....

Special Control Mounting Kits. B5888. Universal control—adjust tuning mechanism of the Knight 7 to fasten to lower edge of dash instrument panel. NET.....

B5899. Custom control for mounting on dash panel of cars equipped with radio control compartment. When ordering, specify make, model (standard or de luxe) and year of car. NET..

\$22⁹⁵

VALUES IN AUTO RADIOS!



R.C.A. &
HAZELTINE
LICENSED

Knight 6 TUBE AUTO RADIO

You can look everywhere, but you can't find an Auto Radio value to compare with this! Never before have you been able to buy 6 tube power plus the convenience and driving safety of Push-Button Tuning, at this low price. Fits any car perfectly. Brings you radio at its best wherever you drive.

Automatic Tuning. Tune without taking your eyes off the road! With this new Knight 6 you can tune your choice of six favorite stations just by pressing a button! Positive, accurate tuning; does not interfere with regular manual tuning of all other stations.

Slide-Rule Dial. Easy-to-read, easy-to-tune; inclined to provide full vision and complete safety while driving. Good-looking, too, even in the finest of car interiors.

All-Electric Radio. The 1941 Knight 6 (with rectifier) offers all-electric operation. Has built-in vibrator power supply. New Super-het circuit, licensed by R.C.A. and Hazeltine, uses the newest tubes for extra-tube power and efficiency. Tubes are: 2—6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT. No suppressors are required.

All These Fine Features. Full A.V.C. for freedom from fading; full 3 watts power output; heavy-duty Electro-dynamic Speaker for splendid tone quality; R.F. Stage for super-sensitivity; 535 to 1550 K.C. tuning range; low-drain; plug-type antenna connection, etc.

Fine Looks. You'll like the simple, sturdy all-steel case that houses the Knight 6. Beautifully finished in grey; measures $12 \times 6\frac{1}{4} \times 3\frac{1}{4}$ ". Designed to mount neatly along the lower edge of car dash panel. The Knight 6 has been designed and built with all the care and precision demanded by the highest automotive standards. It is constructed to withstand vibrations and shock and to give maximum radio enjoyment wherever you drive.

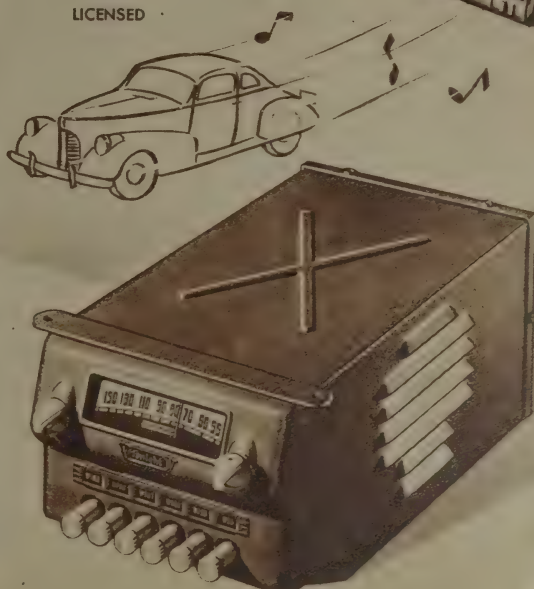
Set Complete. The 1941 Knight 6 is offered as described above, complete with tubes. Shpg. wt., 14 lbs. Code: RIGHT.

B10554. Value, \$27.95.

NET PRICE, EACH, \$15.95.

NET PRICE, LOTS OF 3, EACH.....

\$15²⁵





REMARKABLE VALUES IN POWERFUL 3-WAY PORTABLES



Carry these portables everywhere . . . enjoy fine radio reception everywhere.



Use them at home, too—just plug into any handy 110 volt AC or DC outlet.

R. C. A. LICENSED



OPEN-FACE MODEL

Identical with model described at right, but supplied in carrying case with "open face." Has exactly same features: three-way operation, built-in "Magna-Beam," Superhet circuit, 5" PM speaker, etc. Complete with tubes and batteries. Shpg. wt., 15 lbs.

B10521. Brown finished carrying case.

B10522. Green finished carrying case.

NET PRICE EACH, \$15.65.

NET, LOTS OF 3, EACH. . . . \$14.95



Knight 5 TUBE 1.4 VOLT 110 VOLT AC-DC PORTABLE

Enjoy sparkling radio entertainment anywhere—anytime—with this **Knight 5 Tube Portable**. Operates from batteries, from 110 volts AC, from 110 volts DC. It's the most versatile radio you can buy—at a price that's far lower than you'd expect to pay. Has everything built into one beautiful luggage-type portable case—there's nothing more to buy. Furthermore, the **Knight 5** has every desirable new feature you could ask for.

Plays Anywhere. Carry the **Knight 5** with you wherever you go; it's always ready for instant operation. If an electric outlet is handy, just plug in for immediate performance. If you're in the country, play it from the economical self-contained batteries. Has built-in "Magna-Beam"—the wonderful new antenna that replaces trailing aerial and ground wires, yet pulls in programs powerfully. It's 1941's finest built-in antenna for portables.

Exceptional Economy. On either batteries or AC-DC, the **Knight 5** is a wonder for economy. Performance on batteries is just as powerful and enjoyable as on electric current, yet drain is ingeniously held down by the clever circuit. Batteries will furnish from 150 to 200 hours of service before needing replacement. That's true portable radio economy.

Powerful, Enjoyable Reception. The **Knight 5** tunes 540 to 1550 KC for exceptionally fine reception of all regular Broadcast stations. You'll enjoy the convenience of the 3 3/4" Slide-Rule dial, the handy controls, the visual "on-off" indicator. Automatic Volume Control maintains uniform volume level on all stations. Tone quality is full and rich whether you're operating from batteries or an electric outlet. A special 5-inch PM Dynamic speaker handles full volume with pleasing fidelity. You'll be pleasantly surprised at the quality of this Portable.

Newest Superhet. The secret behind the performance and economy of the **Knight 5** is in the new low-drain 1.4 volt tubes used in an efficient RCA and Hazeltine licensed Superhet circuit. 1A7GT is Conv.; 1N5GT is IF Amp.; 1H5GT is Det.-AVC-1st Audio (triple-purpose); 3Q5GT is Power Output; 117Z6GT is rectifier (on electric operation). An added feature is the exclusive Automatic Current Switchover; when small door at side of cabinet is closed, you operate from batteries; to use AC or DC, just open the door and remove power cord which automatically shuts off battery switch. You can make the change either way in a jiffy.

Smart Carrying Case. A real beauty! Has handsome luggage-type covering with woven effect in airplane-gray. With convenient carrying handle and genuine leather identification tag. Carrying weight is only 15 lbs.

Set Complete. The **Knight 5 Three-Way Portable** is supplied complete with tubes and battery pack. For 1.4 volts or 110 volts AC or DC. Shpg. wt., 18 1/2 lbs. Code: SWANK.

B10545. Value, \$26.50.

NET EACH, \$15.25.

NET, LOTS OF 3, EACH. . . .

B10030. Extra Battery Pack. Shpg. wt., 9 lbs.. NET \$2.35

\$14.45

Knight 5 TUBE 1.4 VOLT 110 VOLT AC-DC PORTABLE

Three fine radio receivers for the price of one—that's what you really get with this new **Knight 5 Tube Portable**. For it operates from self-contained batteries, from 110 volts, 60 cycles AC, or from 110 volts DC. That means you need never be without radio—no matter where you go. Play it outdoors or at home—in the city or in the country—it's just as efficient and enjoyable anywhere. Here's a real "companion radio" that will bring you enjoyable, economical radio entertainment wherever you carry and play it—a wonderful performer you'll be proud to own.

Everything Built-In. The built-in "Magna-Beam" loop antenna picks up programs from near and far with exceptional ease. No aerial, no ground, no trailing, bothersome wires. Batteries are self-contained, too. Everything you need is in the single attractive carrying case. And it's a simple thing to switch from batteries to electric operation; just turn battery switch off, plug in power cord, and play. Takes only a minute and you enjoy wonderful reception either way.

Powerful Coverage. You tune the full Broadcast Band with the **Knight 5**—from 535 to 1730 KC—for all American and Canadian stations, plus popular Police calls. You'll enjoy easy tuning with the big, easily legible "Speedometer" type dial. Dial lights up on AC operation. An exceptionally attractive, practical new dial.

Efficient Superhet Circuit. The new 1.4 volt low-drain tubes are used in a new RCA licensed Superhet circuit. 1A7GT is Osc.-Det. (dual-purpose); 1N5GT is IF; 1H5GT is Det.-AVC-1st Audio (triple-purpose); 1A5GT is Power Output; and 35Z5GT is rectifier (on AC-DC only). Includes Automatic Volume Control to provide steady, uniform volume level. The finest Portable set tone quality is assured by the special 5-inch PM Dynamic speaker which reproduces every program in a truly enjoyable way. You'll be really amazed at the full, rich tone quality.

Up-to-Date Styling. The **Knight 5** is right up-to-the-minute in its beautifully designed, weatherproof leatherette-covered case. Available in rich Brown or smooth Green finish. Has handy carrying handle and comes complete with genuine leather identification tag. Size is only 14" x 9 1/4" x 6". Carrying weight is only 11 lbs. Case has protective lid which opens or closes in a jiffy.

Set Complete. **Knight 5 Tube Three-Way Portable** supplied complete with tubes, built-in "Magna-Beam," and batteries. Operates on 110 volts, 60 cycles AC or DC, or from batteries supplied. Shpg. wt., 15 lbs. Value, \$29.95.

B10523. In Brown finish.

B10524. In Green finish.

NET EACH, \$17.45.

NET, LOTS OF 3, EACH. . . .

B9773. Extra Battery Pack. Shpg. wt., 9 lbs.. NET \$2.05

\$16.85

Knight 6 TUBE 1 BAND 1.4 VOLT 110 VOLT AC-DC PORTABLE

All the features ordinarily found only in fine home radios—plus the versatility of three-way operation—all this is yours at a money-saving price in this superb new **Knight 6 Tube Portable**. For powerful reception of distant as well as local stations, for unusually faithful tone quality, for long-lived dependability, it's a receiver you just can't beat. Note its dozens of outstanding features.

Take It Anywhere. No matter where you go, you'll want to take the **Knight 6** along with you. You can operate it in the city from 110 volts, 60 cycles, AC or DC. You can get equally fine performance in the country, in camps, at beaches, on trips, from the self-contained battery power supply. Either way it's just as powerful, just as economical to operate. Added convenience is supplied by the built-in "Magna-Beam" loop antenna. Does away with all trailing aerial and ground wires, yet picks up programs powerfully.

Unusually Powerful Circuit. The **Knight 6** features a special RF stage—an expensive set development—for extra sensitivity in tuning distant stations. Reception is enjoyable even in remote localities where ordinary portables are unsatisfactory. The cleverly-engineered RCA and Hazeltine licensed Superhet circuit uses newest 1.4 volt low-drain tubes as follows: 1P5G as RF Amp.; 1A7GT as Mod.-Osc. (dual-purpose); 1N5GT as IF Amp.; 1H5GT as Det.-AVC-1st Audio (triple-purpose); 3Q5GT as Power Output; and 11Z6GT rectifier (on electric current only). The multi-purpose tubes develop the power and efficiency of many 7- and 8-tube sets.

Long Distance Range. Tuning range covers the entire Broadcast band plus upper channel Police calls. Tunes 535 to 1730 KC. Full Automatic Volume Control maintains constant, unvarying volume level on all stations; prevents annoying fading or blasting. Tuning is unusually simple with the attractive 5" x 1 1/2" Slide-Rule dial; calibrations are extra-large for easy logging. A heavy-duty, rubber-mounted 3-gang condenser provides for amazing sensitivity and selectivity throughout the tuning range of the **Knight 6**.

Thrifty to Operate. On either batteries or AC, the **Knight 6** is a real "current-miser." The battery pack is good for approximately 200 hours of service before requiring replacement. You'll appreciate this amazing economy. Inexpensive battery pack is easily obtainable everywhere. Saves you money on every count.

Splendid Tone. You'll enjoy unusual fidelity and richness of tone as programs are re-created through the special 5-inch PM Dynamic speaker. Here's tone quality that matches home radio performance. You'll get a real listening thrill out of this portable!

Set Complete. The **Knight 6** is presented in the handsome portable cabinet at right above. Durable grained leatherette case has convenient carrying handle and cleverly-designed protective lid. Leather name tag is included. Size: 12 1/4" x 11 1/2" x 7 1/2". With tubes and batteries. For battery operation or 110 volts, 60 cycles AC or DC. Carrying weight, 18 lbs. Shpg. wt., 21 1/2 lbs. Code: TOURS.

B10563. Value, \$41.95.
NET PRICE, EACH, \$22.45.
NET, LOTS OF 3, EACH.....
B10029. Extra Battery Pack. Shpg. wt., 8 lbs..... **NET \$2.75**

\$21.45



**WITH
LID**

OPEN-FACE MODEL

Illustrated at right. Identical in every feature with **Knight 6 Tube Portable** described at left but supplied in "open-face" carrying case (less lid). Shpg. wt., 21 lbs. Complete with tubes and batteries.

B10562. Value, \$38.95.
NET EACH, \$20.95.
NET, LOTS OF 3, \$19.95 EACH.....



Knight 6 TUBE 2 BAND 1.4 VOLT 110 VOLT AC-DC PORTABLE

A deluxe three-way Portable Radio—one of the finest made—designed to give you the kind of performance you'd expect from expensive home radios. That's this new **Knight 6 Tube 2-Band Portable**. It's versatile—it will perform wonderfully everywhere. It's powerful—it will pick up stations near and far in an almost magical way; and it's a two-band set, giving you all the enjoyment of Short-Wave reception in addition to all its other features.

Three-Way Operation. You can operate the **Knight 6** from its self-contained batteries; you can plug it into any 110 volt, 60 cycles, AC outlet; you can operate it from 110 volts DC. All three ways you get 1941's finest radio reception. The **Knight 6** is economical, too. The batteries supplied will furnish up to 200 hours of entertainment before replacement is necessary.

Two-Band Range. The tuning range of the **Knight 6** covers two full wave bands. Tunes 540-1600 KC for powerful standard Broadcast reception; and 5.9 to 18.1 MC (16.6-51 meters) for unusually dependable Short-Wave reception. Both bands are alive with interesting, enjoyable programs all over the dial. On either band the big four-inch Slide-Rule Dial makes tuning a pleasure.

Newest Superhet Circuit. The very latest low-drain 1.4 volt tubes are used in an ingenious 1941 RCA and Hazeltine licensed Superhet circuit. Uses 1A7GT as Mod.-Osc. (dual-purpose); 1P5GT as 1st IF; 1N5GT as 2nd IF; 1H5GT as Det.-AVC-1st Audio; 3Q5GT as Beam Power Output; and 35Z4GT as rectifier (on electric current only). The built-in "Magna-Beam" loop antenna is an added convenience and does away with annoying aerial and ground wires. Full Automatic Volume Control maintains unvarying volume level. You'll find every feature you expect of the very best home type radios combined in this remarkably versatile 2-Band Portable Radio.

Sparkling Tone Quality. You'll get more enjoyment out of your favorite programs when you hear them through the **Knight 6**. The special 5-inch PM dynamic speaker affords exceptional realism and depth of tone in the reproduction of every program.

Beautifully Styled. A distinctively handsome leatherette finished case houses the new **Knight 2-Band Portable**. Has hinged lid to protect speaker and control panel. With convenient carrying handle and leather name tag for identification. Carrying weight, 18 lbs. Measures 12" x 11 1/2" x 7 1/4". It's a carrying case you'll be proud to own.

Set Complete. The **Knight 2-Band Portable** is supplied complete with tubes, built-in "Magna-Beam" and batteries. For 1.4 volt battery operation or 110 volts, 60 cycles AC or DC. Shpg. wt., 21 1/2 lbs. Code: SPORT.

B10565. Value, \$45.00.
NET PRICE EACH, \$24.45.
NET, LOTS OF 3, EACH.....
B10029. Extra Battery Pack. Shpg. wt., 8 lbs..... **NET \$2.75**

\$23.45



**R.C.A. &
HAZELTINE LICENSED**

OPEN-FACE MODEL

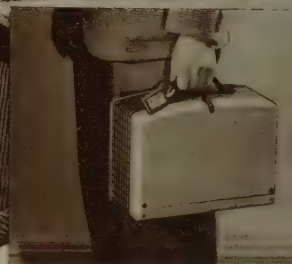
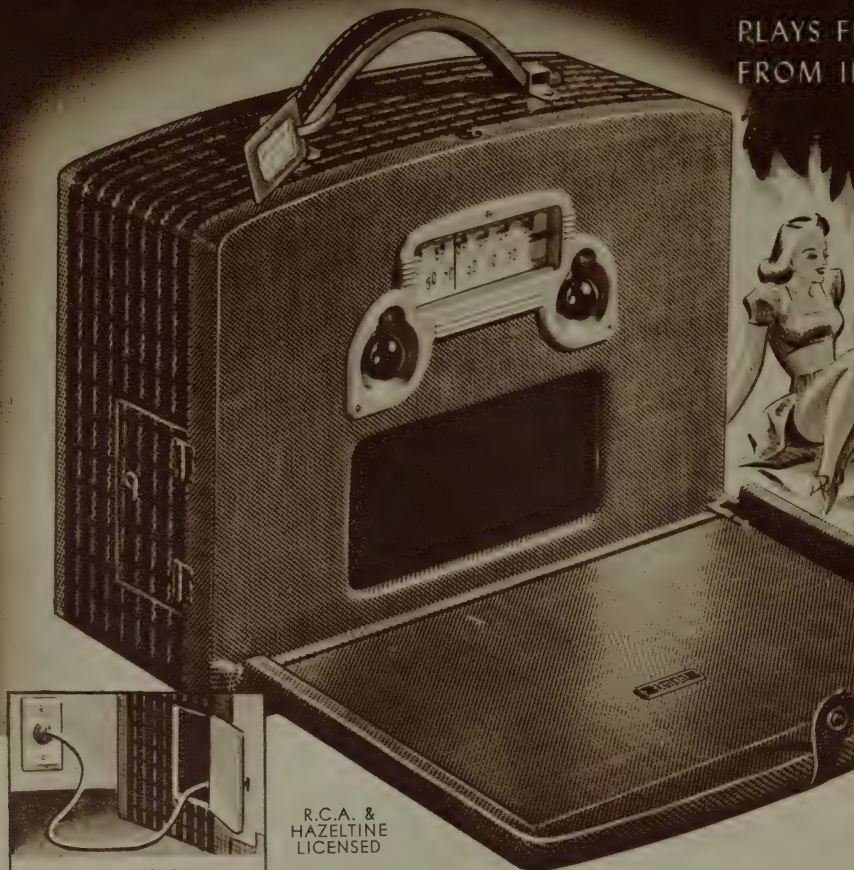
Has exactly the same features of model described at left, but presented in "open-face" cabinet. Has Superhet circuit, "Magna-Beam," Slide-Rule Dial, A.V.C.; new low-drain tubes, etc. Supplied complete with tubes and batteries. Shpg. wt., 21 lbs.

B10564. Value, \$42.95.
NET EACH, \$22.95.
NET, LOTS OF 3, \$21.95 EACH.....



AMERICA'S De Luxe 3-WAY PORTABLE RADIO

PLAYS FROM BATTERIES OR
FROM 110 VOLTS AC OR DC



Automatic Switchover — when small side-door is closed, you operate from batteries. To work from A.C. or D.C., open door for cord; shuts off the battery automatically.

R.C.A. &
HAZELTINE
LICENSED

Carries Everywhere!
Plays Anywhere!

Knight 6 TUBE 1.4 VOLT-110 V.^{AC}_{DC} PORTABLE

- 3 Radios In One
- With "Magna-Beam"
- Full A.V.C. Action
- Automatic Switchover
- With R.F. Stage
- 5-Inch P.M. Speaker
- Superhet Circuit
- With Identification Tag

AMERICA APPLAUDS
THIS VERSATILE
Knight PORTABLE



You couldn't ask for a finer, more versatile Portable Radio. Actually three sets in one. You can play it right from its built-in batteries out-doors or wherever there's no electric current. Or you can play it where you have current—just plug in on 110 volts A.C. or on 110 volts D.C., and enjoy powerful reception and wonderful tone that measures right up to the best home type radios. By every standard, the **Knight 6** Tube (including rectifier) is a fine Portable Buy!

Complete—Ready to Play. You don't have to make any complicated connections. There's no aerial or ground wire to bother with, because the **Knight 6** has the new built-in "Magna-Beam" loop—the perfected aerial that reaches right out and brings them in. And the battery pack is self-contained, too—for extra compactness.

With R.F. Stage. Here's a new feature in portables—found only in the finest home type radios. The R.F. Stage develops amazing sensitivity and that means bigger distance reach and greater selectivity, with less noise on all stations.

Strong Reception. The **Knight 6** Portable tunes all American and Canadian standard Broadcast stations on 540-1550 K.C. Brings them in powerfully and clearly. Tune your programs in a jiffy with the big full-vision Slide-Rule Dial. The visual "on-off" indicator is a helpful feature, too.

What Economy! On either batteries or AC-DC, you'll find the **Knight 6** the most economical radio you can buy. On A.C. or D.C., all six tubes operate; on batteries, one tube is automatically switched out for greater operating economy, yet performance remains just as powerful. Easily obtainable battery pack gives 150-200 hours of service before requiring replacement.

Latest Superhet. Newest low-drain tubes are used in the R.C.A. and Hazeltine licensed circuit of the **Knight 6**. 1N5GT is R.F. Amp.; 1A7GT is Conv.; 1N5GT is I.F.; 1H5GT is Det.-A.V.C.-1s Audio; (triple-purpose); 3Q5GT is Power Output; 117Z6 is Rect. (on electric operation). You get more than six-tube power and efficiency with this fine tube line-up in the latest Superhet circuit.

"Plus" Features. A heavy-duty 5-inch P.M. Dynamic Speaker handles the big output of the circuit brilliantly. Automatic Volume Control keeps volume uniform on all programs. The cabinet is properly designed and ventilated for best acoustical results and low temperature rise. Switchover feature automatically disconnects battery when set is plugged in on A.C. or D.C.

Good to Look At. The **Knight 6** is a real beauty for looks. It is covered with a smart new luggage type cloth with rich woven effect in airship-grey. Has removable hinged lid which protects knobs and front face; with sturdy carrying handle. Only 13¼"x9¼"x5¼". Carrying weight is only 16 lbs. Supplied with genuine leather identification tag for your name and address.

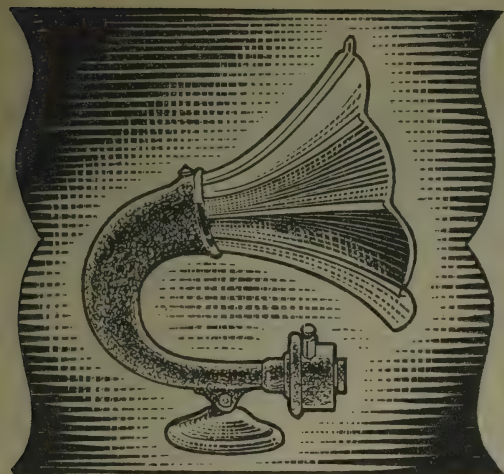
Knight 6 Complete. The **Knight 6** Tube 3-Way Portable Superhet is offered as illustrated and described, **complete with tubes and battery pack.** For operation from batteries or from 110 volts, 40-60 cycles, A.C. or D.C. Shpg. wt., 19 lbs. Code: PRIZE.

B10540.
Value, \$33.50.
NET EACH, \$18.85.

YOUR PRICE,
LOTS OF 3, EACH.....

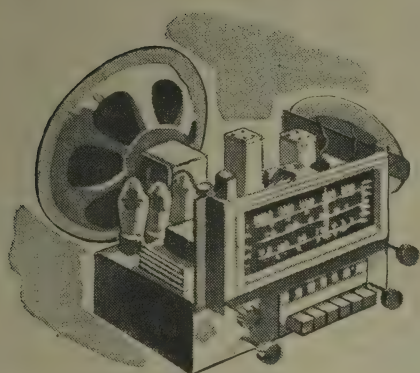
B10030. Extra Battery Pack. 5½ lbs. \$2.35

\$17⁸⁵



Remember WAY BACK WHEN?

... Gooseneck Horns were a parlor sensation? And don't you remember De Forest's Audion, and the Cockaday Tuner, and Honeycomb Coils, and Neutrodyne Kits? What memories! That was when radio was a novelty, and people, lifting their eyebrows, asked: "Do you think it's here to stay?" Yes, it was in those days, nearly two decades ago, that *ALLIED* was beginning to establish its leadership in the lusty young-radio industry. Even then, "Everything in Radio" became *ALLIED'S* motto, although, for example, the largest tube manufacturer produced only about 20 different tube types. Yes, even then *ALLIED* was winning a host of friends with complete stocks, highest quality merchandise, lowest prices and fast service.



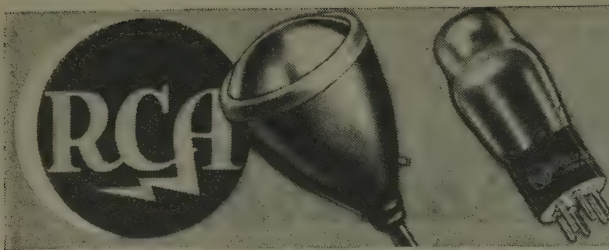
TODAY

... 50,000,000 radio sets in the United States alone, tell the story of Radio's progress. There have been tremendous changes in Radio, but there has been no change in *ALLIED'S* tradition of lowest prices, highest quality and fastest service in the field. Today, "Everything in Radio" means that this 1941 catalog, the largest in all our history, includes over 15,000 items (over one half-million individual parts). Of radio set tubes made by one manufacturer alone, *ALLIED* stocks 423 different types. For the Serviceman there is a tremendous assortment of test instruments, meters, tools, and replacement parts. For the Experimenter and Radio Builder there is a huge variety of parts and gadgets for every circuit requirement. For the Sound Specialist and for the Amateur there are complete separate sections featuring the very finest equipment ever offered anywhere. For Schools, Industry, Broadcast Stations and Laboratories, too, the *ALLIED* Catalog is the one indispensable Radio-Buying Guide. Use it as your directory to the field of radio.



AND TOMORROW

... brings up the question—not "Is Radio here to stay?"—but—What does the Future hold? Already there are indications. Television . . . Frequency-Modulation . . . over the horizon . . . and the hint of other new developments. Whatever comes, you can depend on *ALLIED*, the 100% Radio House, to set the pace, to bring you Everything in Radio. And always, to merit your confidence, we shall maintain the highest standards of quality, give you the most for your money, and serve you with promptness and skill . . .



RADIO

A GREAT NAME IN RADIO TUBES

RCA Radiotrons are universally known as the quality line of perfect tubes sold in the famous red and black factory-sealed cartons. ALLIED stocks all RCA tubes for quick shipment; new types are available immediately after release. Save and profit more by our quantity prices; these prices apply to orders for one type or any assortment of tube types.

GUARANTEED FOR 6 FULL MONTHS

Every RCA Radiotron is guaranteed to give perfect service for a period of six months from date of purchase. We will promptly replace any tube that does not give complete satisfaction. (Burned-out or broken tubes are, of course, not replaceable.) For helpful RCA Tube Sales Aids, see the listings on the following page. Buy RCA Tubes for quality and service.

STANDARD GLASS TUBES

Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH	
			1-14	15-UP				1-14	15-UP				1-14	15-UP
00A	B100	\$2.10	\$1.13	\$1.05	20	B141	\$2.70	\$1.46	\$1.35	59	B172	\$1.60	\$0.86	\$0.80
01A	B101	.80	.43	.40	22	B142	2.10	1.13	1.05	71A	B173	.80	.43	.40
1A4P	B102	1.25	.67	.62	24A	B143	.80	.43	.40	75	B174	.70	.38	.35
1A6	B104	1.25	.67	.62	25Z5	B136	.80	.43	.40	76	B175	.70	.38	.35
1B4P	B105	1.25	.67	.62	26Z	B144	.60	.32	.30	77	B176	.80	.43	.40
1B5	B106	1.00	.54	.50	27	B145	.60	.32	.30	78	B177	.80	.43	.40
1C6	B107	1.25	.67	.62						79	B178	1.25	.67	.62
1F4	B108	1.00	.54	.50	30	B146	.80	.43	.40	80	B179	.60	.32	.30
1F6	B109	1.60	.86	.80	31	B147	.80	.43	.40	81	B180	1.60	.86	.80
1V	B110	.80	.43	.40	32	B148	1.25	.67	.62	82	B181	1.00	.54	.50
2A3	B111	2.10	1.13	1.05	33	B149	1.25	.67	.62	83	B182	1.00	.54	.50
2A5	B112	.80	.43	.40	34	B150	1.25	.67	.62	83V	B183	1.60	.86	.80
2A6	B113	.80	.43	.40	35/51	B151	.80	.43	.40	84/6Z4	B184	1.00	.54	.50
2A7	B114	1.00	.54	.50	36	B152	.80	.43	.40	85	B185	.80	.43	.40
2B7	B115	1.25	.67	.62	37	B153	.70	.38	.35	89	B186	.80	.43	.40
5Z3	B117	.80	.43	.40	38	B154	1.00	.54	.50					
6A4/LA	B119	1.25	.67	.62	39/44	B155	.80	.43	.40	V99	B187	2.70	1.46	1.35
6A6	B120	1.25	.67	.62	40	B156	1.25	.67	.62	X99	B188	2.70	1.46	1.35
6A7	B121	.80	.43	.40	41	B157	.70	.38	.35	112A	B138	.80	.43	.40
6AB5	B130	1.60	.86	.80	42	B158	.70	.38	.35	WD11	B194	2.10	1.13	1.05
6B5	B123	2.10	1.13	1.05	43	B159	1.00	.54	.50	WX12	B195	2.10	1.13	1.05
6B7	B124	1.25	.67	.62	45	B160	.70	.38	.35	874	B335	2.70	1.46	1.35
6C6	B125	.80	.43	.40	46	B161	1.00	.54	.50	876	B338	8.00	4.32	4.00
6D5	B126	.80	.43	.40	47	B162	1.00	.54	.50	879	B337	2.70	1.46	1.35
6E7	B127	1.00	.54	.50	48	B163	2.70	1.46	1.35	884	B339	.....	2.00	2.00
6F7	B129	1.25	.67	.62	49	B164	1.00	.54	.50	885	B340	.....	2.00	2.00
6N5	B130	1.60	.86	.80	50	B165	2.10	1.13	1.05	886	B341	8.00	4.32	4.00
6U5/6G5	B132	1.00	.54	.50	53	B167	1.25	.67	.62					
10	B137	2.70	1.46	1.35	55	B168	1.00	.54	.50					
12A7	B134	1.60	.86	.80	56	B169	.70	.38	.35					
12Z3	B135	.80	.43	.40	57	B170	.80	.43	.40					
15	B139	1.60	.86	.80	58	B171	.80	.43	.40					
19	B140	1.25	.67	.62										

ALL METAL TUBES

Type	No.	List	1-14	15-UP	Type	No.	List	1-14	15-UP
0Z4	B200	\$1.60	\$0.86	\$0.80	6SC7	B221	\$1.25	\$0.67	\$0.62
5T4	B201	1.60	.86	.80	6SF5	B222	1.00	.54	.50
5W4	B202	1.00	.54	.50	6SJ7	B223	1.00	.54	.50
5Z4	B203	1.25	.67	.62	6SK7	B224	1.00	.54	.50
6A8	B204	1.25	.67	.62	6SQ7	B225	1.00	.54	.50
6AB7	B374	2.70	1.46	1.35	6SR7	B241	1.00	.54	.50
6AC7	B373	2.70	1.46	1.35	6V6	B226	1.60	.86	.80
6AG7	B303	2.70	1.46	1.35	6X5	B227	1.60	.86	.80
6BB	B205	1.60	.86	.80	12C8	B228	1.60	.86	.80
6C5	B206	1.00	.54	.50	12K8	B238	1.25	.67	.62
6F5	B207	1.00	.54	.50	12SA7	B229	1.25	.67	.62
6F6	B208	1.00	.54	.50	12SC7	B239	1.25	.67	.62
6H6	B209	1.00	.54	.50	12SF5	B239	1.00	.54	.50
6J5	B210	1.00	.54	.50	12SJ7	B231	1.00	.54	.50
6J7	B211	1.00	.54	.50	12SK7	B232	1.00	.54	.50
6K7	B212	1.00	.54	.50	12SQ7	B233	1.00	.54	.50
6K8	B213	1.25	.67	.62	12SR7	B240	1.00	.54	.50
6L6	B214	1.60	.86	.80	1620	B377	.....	2.50	2.50
6L7	B215	1.25	.67	.62	1621	B378	.....	2.50	2.50
6N7	B216	1.25	.67	.62	1622	B379	.....	2.75	2.75
6Q7	B217	1.00	.54	.50	1851	B372	.....	2.10	2.10
6R7	B218	1.25	.67	.62	1852	B373	2.70	1.46	1.35
6S7	B219	1.25	.67	.62	1853	B374	2.70	1.46	1.35
6SA7	B220	1.00	.54	.50	25A6	B234	1.60	.86	.80
					25L6	B235	1.25	.67	.62
					25Z6	B236	1.25	.67	.62

NEWEST EDITION RCA TUBE MANUAL

RC-14. A new, completely revised manual containing full technical specifications for RCA receiving tubes. Brought up to the minute to cover the very latest tube types. Includes circuit diagrams, a concise discussion of vacuum tube theory and applications, a special section on resistance-coupled amplifier operating conditions, and other important technical information. Invaluable to radio servicemen and experimenters. 224 pages. Free with order for 25 RCA tubes. Shpg. wt., 1 lb. **25c.**



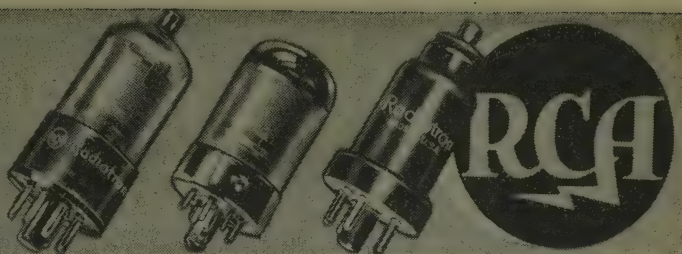
SPECIAL VOLTAGE TUBES

B385. Type VR-105/30. NET.....\$1.25
B386. Type VR-150/30. NET.....\$1.25

"GT" TUBES

Type	No.	List	1-14	15-UP
1A7GT	B290	\$1.25	\$0.67	\$0.62
1C5GT	B245	1.25	.67	.62
1D8GT	B291	2.10	1.13	1.05
1H5GT	B292	1.00	.54	.50
1N5GT	B293	1.25	.67	.62
1P5GT	B246	1.25	.67	.62
1Q5GT	B294	1.25	.67	.62
1T5GT	B280	1.25	.67	.62
3A8GT	B247	2.10	1.13	1.05
3Q5GT	B281	1.60	.86	.80
6A8GT	B297	1.00	.54	.50
6AE5GT	B282	1.60	.86	.80
6F5GT	B298	.80	.43	.40
6J5GT	B299	.80	.43	.40
6J7GT	B250	1.00	.54	.50
6K6GT	B251	1.00	.54	.50
6K7GT	B252	1.00	.54	.50
6Q7GT	B253	.80	.43	.40
6V6GT	B283	1.00	.54	.50
6X5GT	B284	1.00	.54	.50
12A8GT	B295	1.00	.54	.50
12F5GT	B285	.80	.43	.40
12J5GT	B286	.80	.43	.40
12J7GT	B254	1.00	.54	.50
12K7GT	B255	1.00	.54	.50
12Q7GT	B256	.80	.43	.40
25AC5GT	B287	1.60	.86	.80
25L6GT	B257	1.00	.54	.50
25Z6GT	B258	.80	.43	.40
35L6GT	B259	1.00	.54	.50
35Z4GT	B260	.70	.38	.35
35Z5GT	B261	.80	.43	.40
45Z5GT	B288	1.00	.54	.50
50L6GT	B296	1.25	.67	.62
50Y6GT	B248	1.00	.54	.50
70L7GT	B289	2.10	1.13	1.05
11Z6GT	B279	1.60	.86	.80
11Z7GT	B249	2.10	1.13	1.05

TUBES



NEW MINIATURE TUBES



Newly developed tiny 7-prong tubes for pocket radios, hearing aids, and other portable electronic devices. Glass envelope $1\frac{1}{2}$ " long, $\frac{1}{8}$ " diameter.

are $\frac{1}{4}$ " long. Operate from 1.4 (or 1.5) volt dry cells. Filament drain is .05 amps. (1S4 has two filaments and drain is .1 amp.)

B275. Type 1R5. An efficient Pentagrid Converter for 45 or 90 volts on the plate.

B276. Type 1S4. Power Amplifier Pentode. 65 milliwatt output with 45 V. on plate.

B277. Type 1S5. A Diode-Pentode. Gain per stage is 30 with 45 volts on the plate.

B278. Type 1T4. Super-Control R.F. and I.F. Amplifier Pentode.

NET EACH.....86c

In lots of 15, EACH.....80c

B4089. Amphenol socket for above. 10c

OCTAL GLASS TUBES

Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH	
			1-14	15-UP				1-14	15-UP
0A4G	B400	\$1.60	\$0.86	\$0.80	6D8G	B448	\$1.25	\$0.67	\$0.62
0Z4G	B401	1.25	.67	.62	6F5G	B449	.80	.43	.40
1A5G	B402	1.25	.67	.62	6F6G	B450	.80	.43	.40
1A7G	B403	1.25	.67	.62	6F8G	B451	1.25	.67	.62
1C5G	B405	1.25	.67	.62	6G6G	B452	1.25	.67	.62
1C7G	B406	1.25	.67	.62	6H6G	B453	1.00	.54	.50
1D5GP	B407	1.25	.67	.62	6J5G	B454	.80	.43	.40
1D7G	B409	1.25	.67	.62	6J7G	B455	.80	.43	.40
1E5GP	B410	1.25	.67	.62	6K5G	B457	.80	.43	.40
1E7G	B412	2.10	1.13	1.05	6K6G	B458	.80	.43	.40
1F5G	B413	1.25	.67	.62	6K7G	B459	.80	.43	.40
1F7GV	B414	1.60	.86	.80	6L5G	B461	1.00	.54	.50
1G4G	B415	1.00	.54	.50	6L6G	B462	1.60	.86	.80
1G5G	B416	1.25	.67	.62	6L7G	B463	1.25	.67	.62
1G6G	B417	1.25	.67	.62	6N6G	B464	2.10	1.13	1.05
1H4G	B418	.80	.43	.40	6N7G	B466	1.25	.67	.62
1H5G	B419	1.00	.54	.50	6P5G	B467	.70	.38	.35
1H6G	B420	1.00	.54	.50	6Q7G	B470	.70	.38	.35
1J6G	B422	1.25	.67	.62	6R7G	B471	.80	.43	.40
1N5G	B423	1.25	.67	.62	6S7G	B472	1.25	.67	.62
2A4G	B424	2.10	1.13	1.05	6T7G	B473	1.25	.67	.62
2V3G	B301	3.00	1.95	1.95	6U7G	B474	.80	.43	.40
5U4G	B429	1.00	.54	.50	6V6G	B475	1.00	.54	.50
5V4G	B430	1.60	.86	.80	6W7G	B478	1.25	.67	.62
5X4G	B432	1.00	.54	.50	6X5G	B479	1.00	.54	.50
5Y3G	B433	.60	.32	.30	6Y6G	B480	1.60	.86	.80
5Y4G	B434	.60	.32	.30	6Y7G	B481	1.60	.86	.80
6A8G	B437	.80	.43	.40	6Z7G	B483	1.60	.86	.80
6AC5G	B438	1.00	.54	.50	6ZY5G	B482	1.00	.54	.50
6AC5G	B439	1.25	.67	.62	25A6G	B484	1.00	.54	.50
6AF6G	B442	1.25	.67	.62	25A7G	B485	1.60	.86	.80
6B6G	B444	1.00	.54	.50	25B6G	B488	1.60	.86	.80
6B8G	B445	1.25	.67	.62	25L6G	B489	1.25	.67	.62
6C5G	B446	.80	.43	.40	25Z6G	B490	.80	.43	.40
6C8G	B447	1.25	.67	.62					

LOKAL TUBES

Type	No.	List	1-14	15-UP
7A6	B262	\$1.25	\$0.67	\$0.62
7A7	B263	1.25	.67	.62
7A8	B264	1.25	.67	.62
7B5	B270	1.25	.67	.62
7B6	B271	1.25	.67	.62
7B7	B265	1.25	.67	.62
7B8	B272	1.25	.67	.62
7C5	B273	1.25	.67	.62
7C6	B266	1.25	.67	.62
7C7	B274	1.25	.67	.62
7Y4	B267	1.25	.67	.62
35A5	B268	1.25	.67	.62
35Z3	B269	1.25	.67	.62

BOOST TUBE SALES WITH THESE RCA SALES AIDS



Boost your sales of RCA Radiotrons by means of these attractive and useful sales aids. Let your customers know that you stock RCA tubes—the tubes of greatest popularity.

Fig. A. RCA Service Engineer's Pencil. Barrel has standard resistor color-code guide. Non-metallic screwdriver beneath the cap. **FREE** with order for 75 RCA tubes, or sold separately. Shpg. wt., 6 oz. **\$1.50**

Fig. B. Engineer's Fountain Pen. Stainless steel point. Resistor drums on barrel. **FREE** with order for 175 RCA tubes, or sold separately. **\$3.50**

Three color Pencil. Automatically changes lead to color desired. Resistor drums on barrel. **FREE** with purchase of 100 RCA tubes, or sold separately. **\$2.00**

Fig. C. Tube Test Stickers. A roll of 2,000, $1\frac{1}{2} \times 1\frac{1}{4}$ ". Imprinted with your name, address, and city. Space for date and tube condition. **FREE** with order for 50 RCA tubes, or sold separately. **\$1.00**

With your next tube order, ask for your free copy of the **RCA Sales Aid Catalog**. Shows you all the materials available and tells how to secure them. Ask for catalog No. B398.

Fig. D. Decalcomania. An attractive two-color decalcomania transfer sticker for window of your store or car. **FREE** with order for RCA tubes. Ask for B394.

Fig. E. Price Cards. This RCA Radiotron list shows prices for all RCA tubes. Also includes, on the reverse side, a complete interchangeable tabulation for obsolete types and brands. **FREE** with order for RCA tubes. Ask for B396.

Fig. F. Dummy Cartons. Exact duplicates in color and size of the famous RCA Radiotron sealed tube carton. 25 of these cartons are offered **FREE** with your order for 10 RCA tubes. Ask for B397.

Tube Characteristic Chart. A handy chart in pamphlet form. Shows the electrical characteristics and pin arrangement of all RCA receiving tubes. Starts with the earliest type-00-A, and covers all tubes manufactured since then. This chart is the latest edition. **FREE** with order for RCA tubes. Ask for B389.

TELEVISION KINESCOPES

B380. 3AP4/906P4. 3" diameter Kinescope. For black and white reproduction of pictures. Electrostatic deflection. **\$13.75**

B384. 5AP4/1805P4. 5" diameter Kinescope. Produces $3\frac{1}{2} \times 3$ " black and white pictures. **\$22.00**

B382. 5BP4/1802P4. 5" diameter Kinescope. Produces black and white pictures. Magnetic deflection type. **\$22.00**

B383. 7AP4. 7" diameter Kinescope. Magnetic deflection type. Produces $3\frac{1}{2} \times 5$ " black and white pictures. Construction is of the short bulb type. **\$29.00**

B376. 9AP4/1804P4. 9" diameter Kinescope. Produces $5\frac{1}{2} \times 7\frac{1}{2}$ " black and white pictures. Magnetic deflection type. **\$50.00**

B375. 12AP4/1803P4. 12" diameter Kinescope. For brilliant black and white reproduction of pictures in $7\frac{1}{2} \times 10$ " size. Magnetic deflection type. **\$60.00**

Allied can supply RCA Iconoscopes, Orthicons, Monoscopes and Rectifiers for both television and oscillograph use. Write for Bulletin B393. For listings of other RCA special purpose tubes and transmitting tubes refer to page 152.

PRACTICAL TELEVISION BY RCA

A new booklet containing complete data on RCA Television System. Covers video receiver design and servicing requirements, television antennas, interference elimination, etc. Has glossary defining television terms. Size: $8\frac{1}{2} \times 11$ ". 40 pages. **\$25c**



B390. NET.....25c

ILLUMINATED PARCHMENT SIGN

B498. Attractive, brightly colored. Built of sturdy fire-proof parchment. Red and green lettering on black background. Complete with bracket and hanger. **Free** with each purchase of 65 RCA tubes, or sold separately. **\$1.35**

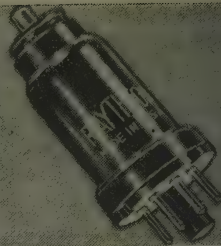
SERVICEMAN'S CASE

B499. Compact, sturdy case for carrying tools, tubes, wire, parts, etc. Designed to hold pliers and screwdrivers on inside of lid. Separate compartment for soldering iron and other heavy tools. **Free** with purchase of 200 RCA tubes, or sold separately. **\$4.00**



RAYTHEON

RADIO TUBES



THE COMPLETE QUALITY LINE

RAYTHEON is the quality line of tubes—built by the largest exclusive tube manufacturer in the world. RAYTHEON is the complete line of tubes—offering an efficiently engineered, carefully constructed tube for every purpose. The Raytheon line includes standard glass, all-metal, octal glass, GT type, loktal, and special Majestic radio tubes; resistance tubes; and panel bulbs. **ALLIED** regularly carries huge, fresh stocks of the complete Raytheon line, and is ready to give you instant service; all new types are added to our stock as soon as they are released. Write for the free Raytheon Technical Data Tube Chart B897 described below.

GUARANTEED FOR SIX MONTHS

Every Raytheon tube is fully guaranteed against any electrical or mechanical defect for a period of six months from date of purchase. We will immediately replace any tube that does not give you completely efficient and satisfactory performance. (This offer, of course, does not apply to burned-out or broken tubes.) **Note our attractive extra discount** in the listings on these two pages for tubes purchased in quantities of 15 or more. This discount applies whether you order Raytheon tubes of one type or of assorted types. Build up your order to 15 or more tubes and take advantage of substantial savings offered by our quantity prices!

STANDARD GLASS TUBES

Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH	
			1-14	15-UP				1-14	15-UP
00A	B500	\$2.10	\$1.13	\$1.05	35-51	B551	\$0.80	\$0.43	\$0.40
01A	B501	.80	.43	.40	36	B552	.80	.43	.40
1A4P	B502	1.25	.67	.62	37	B553	.70	.38	.35
1A4T	B503	1.25	.67	.62	38	B554	1.00	.54	.50
1A6	B504	1.25	.67	.62	39-44	B555	.80	.43	.40
1B4	B505	1.25	.67	.62	40	B556	1.25	.67	.62
1B5	B506	1.00	.54	.50	41	B557	.70	.38	.35
1C6	B507	1.25	.67	.62	42	B558	.70	.38	.35
1F4	B508	1.00	.54	.50	43	B559	1.00	.54	.50
1F6	B509	1.60	.86	.80	44	B560	.70	.38	.35
1V	B510	.80	.43	.40	45	B561	1.00	.54	.50
2A3	B511	2.10	1.13	1.05	46	B562	1.00	.54	.50
2A5	B512	.80	.43	.40	47	B563	2.70	1.46	1.35
2A6	B513	.80	.43	.40	48	B564	1.00	.54	.50
2A7	B514	1.00	.54	.50	49	B565	2.10	1.13	1.05
2B7	B515	1.25	.67	.62	50	B566	2.70	1.46	1.35
2E5	B516	1.25	.67	.62	51	B567	1.25	.67	.62
5Z3	B517	.80	.43	.40	52	B568	1.00	.54	.50
6A3	B518	2.10	1.13	1.05	53	B569	.70	.38	.35
6A4	B519	1.25	.67	.62	54	B570	.80	.43	.40
6A6	B520	1.25	.67	.62	55	B571	.80	.43	.40
6A7	B521	.80	.43	.40	56	B572	1.60	.86	.80
6AB5	B530	1.60	.86	.80	57	B573	.80	.43	.40
6B5	B523	2.10	1.13	1.05	58	B574	.70	.38	.35
6B7	B524	1.25	.67	.62	59	B575	.70	.38	.35
6C6	B525	.80	.43	.40	71A	B576	.80	.43	.40
6D6	B526	.80	.43	.40	75	B577	.80	.43	.40
6E5	B527	1.00	.54	.50	76	B578	1.25	.67	.62
6E6	B528	1.60	.86	.80	77	B579	.60	.32	.30
6F7	B529	1.25	.67	.62	78	B580	1.60	.86	.80
6G5	B532	1.00	.54	.50	79	B581	1.00	.54	.50
6N5	B530	1.60	.86	.80	80	B582	1.00	.54	.50
6T5	B531	1.25	.67	.62	81	B583	1.60	.86	.80
6U5	B532	1.00	.54	.50	82	B584	1.00	.54	.50
6Z4	B584	1.00	.54	.50	83	B585	.80	.43	.40
12A5	B533	2.10	1.13	1.05	84	B586	.80	.43	.40
12A7	B534	1.60	.86	.80	85	B587	2.70	1.46	1.35
12Z3	B535	.80	.43	.40	86	B588	2.70	1.46	1.35
25Y5	B691	2.10	1.13	1.05	87	B589	1.60	.86	.80
25Z5	B536	.80	.43	.40	88	B590	1.60	.86	.80
10	B537	2.70	1.46	1.35	89	B591	1.60	.86	.80
12A	B538	.80	.43	.40	90	B592	2.70	1.46	1.35
15	B539	1.60	.86	.80	91	B593	2.00	2.00	2.00
19	B540	1.25	.67	.62	92	B594	1.60	.86	.80
20	B541	2.70	1.46	1.35	93	B595	1.25	.67	.62
22	B542	2.10	1.13	1.05	94	B596	2.10	1.13	1.05
24A	B543	.80	.43	.40	95	B597	2.10	1.13	1.05
26	B544	.60	.32	.30	96	B598	2.65	1.43	1.32
27	B545	.60	.32	.30	97	B599	2.50	1.35	1.25
30	B546	.80	.43	.40	98	B600	2.50	1.35	1.25
31	B547	.80	.43	.40	99	B601	2.50	1.35	1.25
32	B548	1.25	.67	.62	100	B602	2.50	1.35	1.25
33	B549	1.25	.67	.62	101	B603	2.50	1.35	1.25
34	B550	1.25	.67	.62	102	B604	2.50	1.35	1.25

"GT" TUBES

Type	No.	List	NET EACH	
			1-14	15-UP
1A5GT	B901	\$1.00	\$0.54	\$0.50
1A7GT	B793	1.25	.67	.62
1C5GT	B794	1.25	.67	.62
1D8GT	B909	2.10	1.13	1.05
1H5GT	B795	1.00	.54	.50
1N5GT	B796	1.25	.67	.62
1P5GT	B913	1.25	.67	.62
1Q5GT	B913	1.25	.67	.62
1T5GT	B913	1.25	.67	.62
3A8GT	B910	2.10	1.13	1.05
3Q5GT	B904	1.60	.86	.80
6A8GT	B797	.80	.43	.40
6C5GT	B914	.80	.43	.40
6F5GT	B798	.80	.43	.40
6H4GT	B799	1.60	.86	.80
6H6GT	B800	1.00	.54	.50
6J5GT	B801	.80	.43	.40
6J7GT	B802	1.00	.54	.50
6K6GT	B804	1.00	.54	.50
6K7GT	B805	1.00	.54	.50
6K8GT	B806	1.25	.67	.62
6P5GT	B807	.70	.38	.35
6Q7GT	B808	.70	.38	.35
6R7GT	B911	.80	.43	.40
6SA7GT	B809	1.00	.54	.50
6SF5GT	B810	1.00	.54	.50
6SJ7GT	B811	1.00	.54	.50
6SK7GT	B812	1.00	.54	.50
6SQ7GT	B813	1.00	.54	.50
6V6GT	B814	1.00	.54	.50
6X5GT	B815	1.00	.54	.50
12A8GT	B816	1.00	.54	.50
12B8GT	B817	1.60	.86	.80
12F5GT	B818	.80	.43	.40
12J5GT	B819	.80	.43	.40
12J7GT	B820	1.00	.54	.50
12K7GT	B821	1.00	.54	.50
12L7GT	B822	1.00	.54	.50
12M7GT	B823	1.25	.67	.62
12N7GT	B824	1.00	.54	.50
12P7GT	B825	1.00	.54	.50
12Q7GT	B826	1.00	.54	.50
12S7GT	B827	1.00	.54	.50
25A6GT	B905	1.00	.54	.50
25A7GT	B828	1.60	.86	.80
25B8GT	B906	2.10	1.13	1.05
25L6GT	B829	1.00	.54	.50
25Z6GT	B830	.80	.43	.40
32L7GT	B831	1.60	.86	.80
35L6GT	B832	1.00	.54	.50
35Z4GT	B833	.70	.38	.35
35Z5GT	B834	.80	.43	.40
45Z5GT	B835	1.25	.67	.62
50L6GT	B836	1.25	.67	.62
50Y6GT	B923	1.25	.67	.62
70L7GT	B907	2.10	1.13	1.05
11L7GT	B912	2.10	1.13	1.05
11M7GT	B924	2.10	1.13	1.05
11Z6GT	B908	1.25	.67	.62

HEARING-AID TUBES

Designed especially for hearing-aid and other compact amplifiers. Overall height, less metal base, only 1 1/2". Max. diameter of glass envelope .550". Filament voltage is 1.25 at only .033 amp.

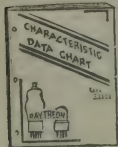
†Metal Shell Base. Miniature tubes with 1-prong base. Fit Amphenol socket listed below. Tube extends 1 1/2" above socket.

*Standard Octal Base. Base easily removed for use without socket. Leads in glass envelope may be wired directly into circuit.

Type†	No.	Type*	No.	EACH
CK501	B915	CK501X	B919	\$3.00
CK502	B916	CK502X	B920	
CK503	B917	CK503X	B921	
CK504	B918	CK504X	B922	

B40B7. Socket for above tubes. Amphenol molded black bakelite. Mounts in 1/2" hole. For † series only. NET.....1.00

TUBE CHARACTERISTICS CHART



Latest edition Raytheon Data Chart. Furnishes in a clear, concise manner all the essential technical tube data so necessary to every serviceman, dealer, technician, and experimenter. Contains complete, up-to-the-minute data on all Raytheon receiving tubes. Also includes complete information on plug-in resistors and radio panel lamps. Lists interchangeable tube types with full replacement data. Order with Raytheon tubes.

B897.....FREE

MAJESTIC SHIELDED TUBES

Type	No.	Type	No.	Type	No.
24S	B864	58S1	B872	6C7	B880
27S	B865	58AS	B873	6D7	B881
35S	B866	75S	B874	6E7	B882
		85AS	B875	6F7S	B883
55S	B867	2A7S	B876	6Y5	B884
56AS	B868	2B7S	B877		
56S	B869			2S-4S	B885
57S	B870	6A7S	B878	22Z-G84	B886
57AS	B871	6B7S	B879	6Z5	B887

Lots of 15. EACH \$1.05 \$1.13
NET EACH.....

LOKTAL TUBES

Type	Cat. No.	List	NET EACH	
			1-14	15-UP
1LA4	B853	\$2.10	\$1.13	\$1.05
1LA6	B854	2.10	1.13	1.05
1LH4	B855	2.10	1.13	1.05
1LN5	B856	2.10	1.13	1.05
7A4	B838	1.25	.67	.62
7A5	B858	1.25	.67	.62
7A6	B839	1.25	.67	.62
7A7	B840	1.25	.67	.62
7A8	B841	1.25	.67	.62
7B5	B842	1.25	.67	.62
7B6	B843	1.25	.67	.62
7B7	B844	1.25	.67	.62
7B8	B845	1.25	.67	.62
7C5	B846	1.25	.67	.62
7C6	B847	1.25	.67	.62
7C7	B848	1.25	.67	.62
7E6	B849	1.25	.67	.62
7E7	B859	1.60	.86	.80
7F7	B860	1.60	.86	.80
7G7	B863	2.10	1.13	1.05
7H7	B837	1.60	.86	.80
7J7	B861	2.10	1.13	1.05
7Q7	B862	1.25	.67	.62
7Y4	B850	1.25	.67	.62
12B7	B857	1.25	.67	.62
1232	B863	2.10	1.13	1.05
35A5	B851	1.25	.67	.62
35Z3	B852	1.25	.67	.62

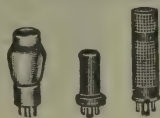
ALL-METAL TUBES

Type	Stock No.	List	NET EACH	
			1-14	15-UP
OZ4	B600	\$1.60	\$0.86	\$0.80
5T4	B601	1.60	.86	.80
5W4	B602	1.00	.54	.50
5Z4	B603	1.25	.67	.62
6A8	B604	1.25	.67	.62
6AB7	B639	2.70	1.46	1.35
6AC7	B638	2.70	1.46	1.35
6AG7	B889	2.70	1.46	1.35
6B8	B605	1.60	.86	.80
6C5	B606	1.00	.54	.50
6F5	B607	1.00	.54	.50
6F6	B608	1.00	.54	.50
6H6	B609	1.00	.54	.50
6J5	B610	1.00	.54	.50
6J7	B611	1.00	.54	.50
6K7	B612	1.00	.54	.50
6K8	B613	1.25	.67	.62
6L6	B614	1.60	.86	.80
6L7	B615	1.25	.67	.62
6N7	B616	1.25	.67	.62
6Q7	B617	1.00	.54	.50
6R7	B618	1.25	.67	.62
6S7	B619	1.25	.67	.62
6SA7	B620	1.00	.54	.50
6SC7	B621	1.25	.67	.62
6SF5	B622	1.00	.54	.50
6SJ7	B623	1.00	.54	.50
6SK7	B624	1.00	.54	.50
6SQ7	B625	1.00	.54	.50
6V6	B626	1.60	.86	.80
6X5	B627	1.60	.86	.80
12C8	B628	1.60	.86	.80
12SA7	B629	1.25	.67	.62
12SC7	B630	1.25	.67	.62
12SF5	B888	1.25	.67	.62
12SJ7	B631	1.00	.54	.50
12SK7	B632	1.00	.54	.50
12SQ7	B633	1.00	.54	.50
1851	B637		2.10	2.10
1852	B638	2.70	1.46	1.35
1853	B639	2.70	1.46	1.35
25A6	B634	1.60	.86	.80
25L6	B635	1.25	.67	.62
25Z6	B636	1.25	.67	.62

RAYTHEON OCTAL GLASS TUBES

Type	Stock No.	List	NET EACH		Type	Stock No.	List	NET EACH	
			1-14	15-UP				1-14	15-UP
OA4G	B700	\$1.60	\$0.86	\$0.80	6C5G	B746	\$0.80	\$0.43	\$0.40
OZ4G	B701	1.25	.67	.62	6C8G	B747	1.25	.67	.62
1A5G	B702	1.25	.67	.62	6D8G	B748	1.25	.67	.62
1A7G	B703	1.25	.67	.62	6F5G	B749	.80	.43	.40
1B7G	B704	1.25	.67	.62	6F6G	B750	.80	.43	.40
1C5G	B705	1.25	.67	.62	6F8G	B751	1.25	.67	.62
1C7G	B706	1.25	.67	.62	6G6G	B752	1.25	.67	.62
1D5GP	B707	1.25	.67	.62	6H6G	B753	1.00	.54	.50
1D5GT	B708	1.25	.67	.62	6J5G	B754	.80	.43	.40
1D7G	B709	1.25	.67	.62	6J7G	B755	1.00	.54	.50
1E4G	B710	1.25	.67	.62	6J8G	B756	1.60	.86	.80
1E5GP	B711	1.25	.67	.62	6K5G	B757	.80	.43	.40
1E7G	B712	2.10	1.13	1.05	6K6G	B758	1.00	.54	.50
1F5G	B713	1.25	.67	.62	6K7G	B759	1.00	.54	.50
1F7GH	B714	1.60	.86	.80	6K8G	B760	1.25	.67	.62
1G4G	B715	1.00	.54	.50	6L5G	B761	1.00	.54	.50
1G5G	B716	1.25	.67	.62	6L6G	B762	1.60	.86	.80
1G6G	B717	1.25	.67	.62	6L7G	B763	1.25	.67	.62
1H4G	B718	.80	.43	.40	6N6G	B764	2.10	1.13	1.05
1H5G	B719	1.00	.54	.50	6N6MG	B765	1.60	.86	.80
1H6G	B720	1.00	.54	.50	6N7G	B766	1.25	.67	.62
1J5G	B721	1.60	.86	.80	6P5G	B767	.70	.38	.35
1J6G	B722	1.25	.67	.62	6P7G	B768	2.10	1.13	1.05
1N5G	B723	1.25	.67	.62	6Q6G	B769	1.25	.67	.62
1N6G	B724	1.25	.67	.62	6Q7G	B770	.70	.38	.35
1P5G	B725	1.25	.67	.62	6R7G	B771	.80	.43	.40
1Q5G	B726	1.25	.67	.62	6S7G	B772	1.25	.67	.62
2A4G	B727	2.10	1.13	1.05	6T7G	B769	1.25	.67	.62
4A6G	B728	1.60	.86	.80	6U7G	B774	.80	.43	.40
5U4G	B729	1.00	.54	.50	6V6G	B775	1.00	.54	.50
5V4G	B730	1.60	.86	.80	6V7G	B776	1.25	.67	.62
5W4G	B731	1.00	.54	.50	6W5G	B777	1.25	.67	.62
5X4G	B732	1.00	.54	.50	6W7G	B778	1.25	.67	.62
5Y3G	B733	.60	.32	.30	6X5G	B779	1.00	.54	.50
5Y4G	B734	.60	.32	.30	6Y6G	B780	1.60	.86	.80
5Z4MG	B735	1.60	.86	.80	6Y7G	B781	1.60	.86	.80
6A5G	B736	2.70	1.46	1.35	6Z7G	B783	1.60	.86	.80
6A8G	B737	.80	.43	.40	25A6G	B784	1.00	.54	.50
6AC5G	B738	1.00	.54	.50	25A7G	B785	1.60	.86	.80
6AD5G	B739	1.60	.86	.80	25AC5G	B786	1.60	.86	.80
6AE6G	B740	1.60	.86	.80	25B6G	B788	1.60	.86	.80
6AE6G	B741	1.25	.67	.62	25C6G	B787	1.60	.86	.80
6AF5G	B697	1.25	.67	.62	25L6G	B789	1.25	.67	.62
6AF6G	B742	1.25	.67	.62	25Z6G	B790	.80	.43	.40
6AL6G	B698	6.75	3.64	3.37	35Z6G	B792	1.25	.67	.62
6B4G	B743	1.60	.86	.80	50C6G	B699	1.60	.86	.80
6B6G	B744	1.00	.54	.50					
6B8G	B745	1.25	.67	.62					

RAYTHEON RESISTANCE TUBES



A complete line of high-quality resistance tubes. Refer to the Raytheon Characteristics Chart B897 for specifications. Types below will cover practically any AC-DC set replacement need.

Type	No.	Type	No.	Type	No.
1A1	B2815*	K49B	B2846	140 R4	B2819
1B1	B2816*	K49C	B2847	140 R8	B2820
L36B	B2836	K49C8	B2848	165 L4	B2821
42A	B2837	K49D	B2849	165 R	B2822
42A1	B2859	L49B	B2850	165 R4	B2823
42A2	B2860	L49C	B2851	165 R8	B2824
42B2	B2861	L49D	B2852	185 R	B2825
BK428	B2882	55A1	B2855	185 R4	B2826
K42B	B2838	55A2	B2856	185 R8	B2827
K42C	B2839	55B2	B2857	878R48	B2868
K42D	B2840	K55B	B2853	NB1	B2828
K42E	B2841	K55C	B2854	NB2	B2829
L42B	B2842	K55D	B2855	NB3	B2830
L42C	B2843	L55B	B2856	NB4	B2831
L42D	B2844	L55C	B2857	NB5	B2832
49A	B2845	L55D	B2858	NB6	B2833
49A1	B2862	60R30G	B2817	NB7	B2834
49A2	B2863	M73B	B2869	NB8	B2835
49B2	B2864	140R	B2818		

List Price, \$0.80.

NET EACH.....43c

Lots of 15, EACH.....40c

*These two types list at \$1.25. NET EACH 67c

RAYTHEON PANEL BULBS

Typical Raytheon quality is built into these high-grade pilot light bulbs. They are famous for their long life and efficiency and at our low prices are cheaper in the long run than inferior foreign-made bulbs. Buy pilot light bulbs in lots of ten and save more money. (Bulbs R51 and R55 are Automotive Types.) See page 48 for standard bead color-code.



REGULAR PANEL TYPES

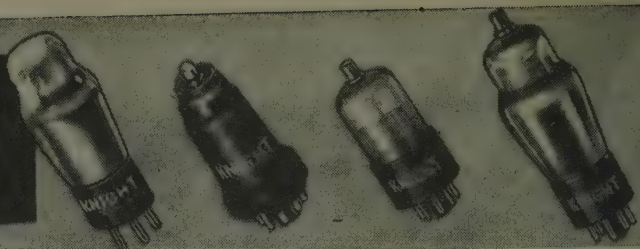
No.	Type	Volts	Amps	EACH	PER 10
B2267	R40	6-8	.15	9c	\$0.54
B2268	R40A*	6-8	.15	9c	.54
B2269	R41	2.5	.50	9c	.54
B2270	R42	3.2	.50	12c	.71
B2271	R43*	2.5	.50	9c	.54
B2272	R44*	6-8	.25	9c	.54
B2273	R45*	3.2	.50	12c	.71
B2274	R46	6-8	.25	9c	.54
B2275	R48	2.0	.06	15c	.88
B2276	R49*	2.0	.06	15c	.88
B2277	R49A*	2.1	.12	18c	1.06
B2278	R50†	6-8	.20	10c	.59
B2279	R292	2.9	.17	12c	.71
B2280	R292A*	2.9	.17	12c	.71

AUTOMOTIVE TYPES

No.	Type	Volts	Amps	EACH	PER 10
B2281	R51†	6-8	.20	7c	.41
B2282	R55†	6-8	.40	7c	.41

*Miniature bayonet base; all others screw base. †Small round bulb.

KNIGHT RADIO TUBES



DEPENDABLE VALUE LEADERS

The increasingly popular **Knight** line of radio tubes offers you a wide selection of fast-moving tubes in all-glass, all-metal, octal base glass, miniature, and GT octal base types. **Knight** tubes are built to exacting standards by one of America's outstanding tube manufacturers.

KNIGHT TUBES ARE R.C.A. LICENSED

Knight tubes are R.C.A. licensed and incorporate all latest developments in vacuum tube design and characteristics. In every way **Knight** tubes are absolutely first-grade. All tubes are supplied in attractive factory-sealed cartons. You can undersell any competition with this superior line of tubes that's covered by our **6-MONTH GUARANTEE**.

GUARANTEED FOR SIX MONTHS

Every **Knight** radio tube is guaranteed against any electrical or mechanical defect for a period of six full months from date of purchase. **Knight** tubes must give you completely satisfactory and efficient performance! We will promptly replace any tube that does not operate properly. (Burned-out or broken tubes, of course, are not replaceable.) ... Here is a guarantee that will help you sell more **Knight** tubes because it assures you of complete customer satisfaction. Here is further proof that **Knight** tubes give you top-notch quality at economy prices. ... For even larger savings buy **Knight** tubes in quantities of 15 or more. Note the extra discounts in the listings below for quantity purchases; these prices apply to orders for tubes of one type or of assorted types. Build your tube orders to 15 or more for extra savings and profits!

STANDARD GLASS TUBES

Type	Stock No.	List	NET 1-14	EACH 15-UP
1A4P	B1300	\$1.25	\$0.56	\$0.50
1A6	B1301	1.25	.54	.48
1B5/2S5	B1302	1.00	.45	.40
1C6	B1303	1.25	.54	.48
1F6	B1304	1.60	.72	.64
1V	B1305	.80	.36	.32
2A3	B1306	2.10	.69	.62
2A5	B1307	.80	.36	.32
2A6	B1308	.80	.36	.32
2A7	B1309	1.00	.44	.40
5Z3	B1310	.80	.36	.32
6A6	B1311	1.25	.54	.48
6A7	B1312	.80	.36	.32
6AB5	B1318	1.60	.57	.51
6B7	B1313	1.25	.55	.49
6C6	B1314	.80	.36	.32
6D6	B1315	.80	.36	.32
6E5	B1316	1.00	.45	.40
6F7	B1317	1.25	.55	.49
6G5	B1319	1.00	.45	.40
6N5	B1318	1.60	.57	.51
6U5	B1319	1.00	.45	.40
12A7	B1320	1.60	.72	.64
12Z3	B1321	.80	.36	.32
19	B1322	1.25	.54	.48
24A	B1323	.80	.36	.32
25B5	B1324	1.25	.54	.48
25Z5	B1325	.80	.36	.32
26	B1326	.80	.36	.32
27	B1327	.60	.27	.24
30	B1328	.80	.36	.32
Type	Stock No.	List	NET 1-14	EACH 15-UP
31	B1329	\$0.80	\$0.36	\$0.32
32	B1330	1.25	.54	.48
33	B1331	1.25	.54	.48
34	B1332	1.25	.55	.49
35/51	B1333	.80	.36	.32
36	B1334	.80	.36	.32
37	B1335	.70	.32	.28
38	B1336	1.00	.44	.40
39/44	B1337	.80	.36	.32
41	B1338	.70	.32	.28
42	B1339	.70	.32	.28
43	B1340	1.00	.44	.40
45	B1341	.70	.32	.28
46	B1342	1.00	.45	.40
47	B1343	1.00	.45	.40
49	B1344	1.00	.45	.40
56	B1345	.70	.32	.28
57	B1346	.80	.36	.32
58	B1347	.80	.36	.32
59	B1348	1.60	.72	.64
71A	B1349	.80	.36	.32
75	B1350	.70	.32	.28
76	B1351	.70	.32	.28
77	B1352	.80	.36	.32
78	B1353	.80	.36	.32
80	B1354	.60	.26	.23
81	B1355	1.60	.72	.64
83	B1356	1.00	.45	.40
84	B1357	1.00	.45	.40
89	B1358	.80	.36	.32

OCTAL GLASS TUBES

1A5G	B1365	\$1.25	\$0.54	\$0.48
1A7G	B1366	1.25	.54	.48
1C5G	B1367	1.25	.54	.48
1C7G	B1368	1.25	.54	.48
1D5GP	B1369	1.25	.55	.49
1F5G	B1370	1.25	.54	.48
1F7GV	B1371	1.60	.72	.64
1G4G	B1372	1.00	.45	.40
1G6G	B1373	1.25	.54	.48
1H4G	B1374	.80	.36	.32
1H5G	B1375	1.00	.45	.40
1J6G	B1376	1.25	.54	.48
1N5G	B1377	1.25	.54	.48
5U4G	B1378	1.00	.40	.36
5V4G	B1379	1.60	.72	.64
5Y3G	B1380	.60	.26	.23
5Y4G	B1381	.60	.26	.23
6A8G	B1382	.80	.36	.32
6B8G	B1383	1.25	.55	.49
6C5G	B1384	.80	.36	.32
6C8G	B1385	1.25	.54	.48
6F5G	B1386	.80	.36	.32
6F6G	B1387	\$0.80	\$0.36	\$0.32
6F8G	B1388	1.25	.55	.49
6H6G	B1389	1.00	.45	.40
6J5G	B1390	.80	.36	.32
6J7G	B1391	.80	.36	.32
6K5G	B1392	.80	.36	.32
6K6G	B1393	.80	.36	.32
6K7G	B1394	.80	.36	.32
6L6G	B1395	1.60	.72	.64
6L7G	B1396	1.25	.55	.49
6N7G	B1397	1.25	.54	.48
6Q7G	B1398	.70	.32	.28
6R7G	B1399	.80	.36	.32
6S7G	B1400	1.25	.55	.49
6U7G	B1401	.80	.36	.32
6V6G	B1402	1.00	.45	.40
6X5G	B1403	1.00	.40	.36
6Z7G	B1404	1.60	.72	.64
25A6G	B1405	1.00	.45	.40
25A7G	B1406	1.60	.72	.64
25L6G	B1407	1.25	.48	.43
25Z6G	B1408	.80	.36	.32

NEW KNIGHT MINIATURE TUBES

1R5	B1481	\$1.60	\$0.72	\$0.64
1T4	B1480	1.60	.72	.64
1S4	B1482	\$1.60	\$0.72	\$0.64
1S5	B1483	1.60	.72	.64

"GT" OCTAL BASE

Type	Stock No.	List	NET 1-14	EACH 15-UP
1A7GT	B1415	\$1.25	\$0.54	\$0.48
1H5GT	B1416	1.00	.45	.40
1N5GT	B1417	1.25	.54	.48
3Q5GT	B1418	1.60	.65	.58
6A8GT	B1419	1.00	.45	.40
6J5GT	B1420	.80	.35	.31
6J7GT	B1421	1.00	.45	.40
6K6GT	B1422	1.00	.38	.34
6K7GT	B1423	1.00	.39	.35
6Q7GT	B1424	.80	.35	.31
6V6GT	B1425	1.00	.45	.40
12A8GT	B1426	1.00	.45	.40
12F5GT	B1427	.80	.36	.32
12K7GT	B1428	1.00	.39	.35
12Q7GT	B1429	.80	.35	.31
25L6GT	B1430	1.00	.45	.40
25Z6GT	B1431	.80	.36	.32
35L6GT	B1432	1.00	.41	.37
35Z4GT	B1433	.70	.32	.28
35Z5GT	B1434	.80	.35	.31
45Z5GT	B1435	1.00	.41	.37
50L6GT	B1436	1.25	.41	.37
117Z6GT	B1437	1.60	.68	.61

ALL-METAL TUBES

Type	Stock No.	List	NET 1-14	EACH 15-UP
5W4	B1440	\$1.00	\$0.45	\$0.40
5Z4	B1441	1.25	.54	.48
6A8	B1442	1.25	.54	.48
6AB7	B1445	2.70	.89	.80
6AC7	B1474	2.70	.89	.80
6C5	B1443	1.00	.45	.40
6F5	B1444	1.00	.45	.40
6F6	B1445	1.00	.45	.40
6H6	B1446	1.00	.45	.40
6J5	B1447	1.00	.45	.40
6J7	B1448	1.00	.45	.40
6K7	B1449	1.00	.45	.40
6K8	B1450	1.25	.55	.49
6L6	B1451	1.60	.72	.64
6L7	B1452	1.25	.55	.49
6N7	B1453	1.25	.55	.49
6Q7	B1454	1.00	.45	.40
6R7	B1455	1.25	.55	.49
6S7	B1456	1.25	.55	.49
6SA7	B1457	1.00	.40	.36
6SC7	B1458	1.25	.54	.48
6SF5	B1459	1.00	.41	.37
6SJ7	B1460	1.00	.45	.40
6SK7	B1461	1.00	.40	.36
6SQ7	B1462	1.00	.36	.32
6V6	B1463	1.60	.72	.64
6X5	B1464	1.60	.65	.58
12C8	B1465	1.60	.72	.64
12SA7	B1466	1.25	.40	.36
12SC7	B1467	1.25	.55	.49
12SJ7	B1468	1.00	.45	.40
12SK7	B1469	1.00	.40	.36
12SQ7	B1470	1.00	.36	.32
25A6	B1471	1.60	.72	.64
25L6	B1472	1.25	.55	.49
25Z6	B1473	1.25	.54	.48
18S2	B1474	2.70	.89	.80
18S3	B1475	2.70	.89	.80

HYTRON TUBES—LINE CORDS AND VOLTAGE REGULATORS



Hytron Bantams represent one of the latest developments in radio tube design and construction. They are built by the same skilled craftsmen responsible for the origination and perfection of the small size tube. With "T" Bulb and Octal Base, they measure only 1 1/4" in diameter and range in overall height from 2 1/4" to 3 3/4". Their compact proportions make them ideal for all portable receivers, and many other applications where space is at a premium. Their rigidly braced tube elements also make them especially desirable for use wherever excessive vibration is encountered. Short connecting leads and the special construction greatly increase stability of circuit operation. *With special shield sometimes necessary when replacing octal metal tubes. **Guaranteed for 6 months.**



HYTRON BANTAM RECEIVING TUBES

Hytron Bantam "GT" tubes are generally interchangeable with "Metal," "G," or "MG" type tubes bearing the same type number. The tubes listed at left below marked with * are supplied with special shield which may be necessary when replacing octal metal types. The shield makes contact with the metal base on the "Bantam" tube which, in turn, is grounded to the No. 1 pin, thus eliminating the need for making difficult and expensive alterations in the set in order to ground the shield to the chassis. Many progressive manufacturers of modern compact receiver equipment are now using Hytron "Bantams" as original tube equipment. Put in a supply to take care of your replacement needs. All tubes are packed in individual factory sealed cartons for your complete protection.

Type	No.	NET EACH		Type	No.	NET EACH	
		1-14	15-UP			1-14	15-UP
1A5GT	B925	\$0.67	\$0.62	6K5GT	*B943	\$0.67	\$0.62
1A7GT	B926	.67	.62	6P8GT	B944	.38	.35
1C5GT	B927	.67	.62	6Q7GT	*B945	.43	.40
1D8GT	B983	1.13	1.05	6R7GT	*B946	.43	.40
1G4GT	B984	.54	.50	6SA7GT	*B947	.54	.50
1G6GT	B985	.67	.62	6SF5GT	*B948	.54	.50
1H5GT	B928	.54	.50	6SJ7GT	*B949	.54	.50
1N5GT	B929	.67	.62	6SK7GT	*B950	.54	.50
1P5GT	B987	.67	.62				
1Q5GT	B930	.67	.62	6SQTGT	*B951	.54	.50
1T5GT	B931	.67	.62	6V6GT	B993	.54	.50
2W3GT	B932	.67	.62	6W6GT	B952	.86	.80
3A8GT	B988	1.13	1.05	6X5GT	B953	.54	.50
3Q5GT	B990	.86	.80	6Y6GT	B982	.86	.80
5W4GT	B991	.54	.50	12A8GT	B954	.54	.50
6AC5GT	B933	.54	.50	12B8GT	B955	.86	.80
6AE5GT	B981	.86	.80	12F5GT	B956	.43	.40
6ABGT	*B934	.54	.50	12J5GT	B994	.43	.40
6C5GT	*B935	.43	.40	12J7GT	B957	.54	.50
6F5GT	*B936	.43	.40	12K7GT	B958	.54	.50
6H4GT	B992	.86	.80	12K8GT	B995	.86	.80
6H6GT	*B937	.54	.50	12Q7GT	B959	.43	.40
6J5GT	*B938	.43	.40	12SA7GT	*B960	.67	.62
6J7GT	*B939	.43	.40	12SF5GT	*B961	.54	.50
6K5GT	B940	.43	.40				
6K6GT	B941	.43	.40	12SJ7GT	*B962	.54	.50
6K7GT	*B942	.43	.40	12SK7GT	*B963	.54	.50
				12SQ7GT	*B964	.54	.50

Type	No.	NET EACH		Type	No.	NET EACH	
		1-14	15-UP			1-14	15-UP
25AC5GT	B986	\$0.86	\$0.80	35L6GT	B972	\$0.54	\$0.50
25A6GT	B965	.54	.50	35Z4GT	B973	.38	.35
25A7GT	B966	.86	.80	35Z5GT	B974	.43	.40
25B8GT	B967	1.13	1.05	35Z6GT	B975	.54	.50
25D8GT	B939	1.13	1.05	50L6GT	B976	.67	.62
25L6GT	B968	.54	.50	50Y6GT	B997	.54	.50
25X6GT	B969	.54	.50	70L7GT	B977	.86	.80
25Z6GT	B970	.43	.40	117L7GT	B999	1.13	1.05
32L7GT	B971	.86	.80	117Z6GT	B998	.67	.62

NEW BANTAM JR. TUBES

Tiny Hearing-Aid tubes, measuring only 2 3/4" in height overall. Mechanically and electrically designed to render efficient service despite their small size. Ideal for use wherever a small tube is required. Suitable for hearing aid amplifiers and experimental circuits. Triode may be used as Osc., RF or AF amplifier. Require 14 volts for filament. "B" drain is exceptionally low. See page 64 for adapters to test these tubes.

No.	70 Ma. Fil.	Application	EACH
B978	HY113	General Purpose Triode.....	\$1.71
B979	HY115	A.F. Interstage Pentode.....	2.45
B980	HY125	A.F. Power Output Pentode.....	2.45
No.	50 Ma. Fil.	Application	EACH
B893	HY123	General Purpose Triode.....	\$1.71
B894	HY145	A.F. Interstage Pentode.....	2.45
B895	HY155	A.F. Power Output Pentode.....	2.45

LINE CORDS—VOLTAGE REGULATORS—TUNGAR BULBS

CLAROSTAT A.C. LINE VOLTAGE REGULATOR



Adjusts line voltage for all 110 Volt A.C. radios. Protects against fluctuating voltages. Shpg. wt., 1 lb.

No.	Type	Watts
B3260	O.	Up to 60
B3261	A.	60 to 100
B3262	B.	100 to 150
B3263	C.	150 to 200
B3264	D.	200 to 250
List, \$1.00.		
NET EACH.....		54c



CLAROSTAT REPLACEMENT LINE BALLASTS

Exact duplicates for sets indicated. Maintains normal voltage for line fluctuations from 90 to 135 volts. Other ballasts can be supplied for almost any radio. When ordering, send in defective ballast and deposit. Shpg. wt., 1 lb.

B3283.	For Stewart-Warner 900 series.
B3284.	For Stewart-Warner 950 series.
B3285.	For Stewart-Warner R100 series.
B3274.	For Brunswick receivers.
B3275.	For Majestic 70 series.
B3278.	For Majestic 180 series.
B3279.	For Majestic 90 series.
YOUR PRICE EACH	
	85c

AC-DC SET LINE CORDS



A line cord with built-in resistor which supplies proper filament voltage for .3 amp. metal and glass tubes when connected in series. Shpg. wt., 1 lb.

No.	Ohms	No.	Ohms	NET EACH
B7207	360	B7203	220	29c
B7208	350	B7211	200	
B7206	330	B7202	180	10 for \$2.50
B7209	310	B7201	160	
B7205	290	B7212	150	
B7210	280	B7200	135	
B7204	250			

B7215 280 With built-in aerial for Wireless Phonographs. NET.....36c

"MAKE-UR-OWN" RESISTANCE CORDS

Color-coded wires. Asbestos covered resistance wire. Divide total resistance needed by 30 or 60 to determine length required.

Ohms	Per Foot	Per 100 Foot
30	B7180	B7181
60	B7182	B7183
		\$3.50

220-110 VOLT AC-DC LINE CORD



Special cords with built-in resistors which permit operation of any 110 Volt A.C.-D.C. receiver from 220 Volt line. With plug and receptacle attached. Shpg. wt., 1 lb.

B9144. For sets using .15 amp. tubes. NET EACH.....59c

UNIVERSAL AC-DC LINE CORD

Consists of 6 resistance values up to 330 ohms. Select proper resistance required and clip off remaining leads. Keep a few handy. B2471. NET.....49c



CONTINENTAL VOLTACON



A versatile new voltage regulator that protects any radio from over-voltage. Easily installed. Adjusts to any of three positions covering voltage ranges between 115-120 volts, 120-125 volts, 125-130 volts. Adjustment is quickly made by turning barrel of unit; no further attention is required after initial adjustment is made. For use with any 4 to 10 tube radio, drawing not more than 100 watts. Shpg. wt., 1 lb.

B2472. NET.....73c



UNIVERSAL RESISTOVOLT

Automatic voltage regulator. Maintains a constant potential of 110 or 220 Volts, A.C. or D.C., preventing tube burnouts. Shpg. wt., 1 lb. B5501. Heavy-Duty for sets from 5 to 9 tubes. NET EACH.....56c



PROTEX VOLTAGE REGULATOR

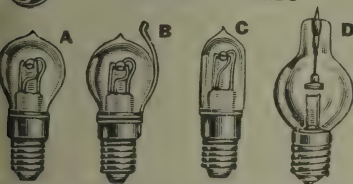
An air-cooled dependable voltage regulator. Fits standard 110 V. socket or outlet and will deliver correct voltage to any set. Ideal for use on power lines when the voltage is excessive. Wt. 1 lb. Lots of 5, \$1.35. B3970. EACH.....30c

KELLOGG TUBES

The original Kellogg AC detector-amplifier tubes, famous for superior construction and long life. 3 volt filament connections brought out at top cap. Shipping wt., 2 lbs.

B1010.	Type 401. Original Kellogg detector amplifier type.	\$2.33
B1011.	Type 403. For use in last audio output stage.	\$2.94
NET.....		

GENUINE G.E. TUNGAR BULBS



The well-known, highly efficient G.E. Tungar bulbs. Used in many standard chargers. Will replace Rectigon bulbs of the same rating.

No.	G.E. Type	Amps.	Fig.	EACH
B4400	277465	2	A	\$2.94
B4401	195528	2	B	2.94
B4402	289881	.6	C	2.94
B4403	189048	6	D	3.67
B4404	189049	6	D	3.67
B4405	212833	15	D	7.35

BALLAST TUBES • BULBS • NEON LAMPS



KNIGHT BALLAST RESISTORS

New metal-shell ballast tubes for replacement in AC-DC sets. Identical to originals in electrical characteristics and base connections. Require no rewiring; simply remove old defective ballast tube and replace with the proper Knight Ballast. Ballast types are listed numerically. Shipping weight, 1 lb.

No.	Type	Replaces
B1018	K23B	BK23B
B1019	K36B	BK36B
B1000	K42B	BK42B, K42BG
B1020	K42C	BK42C, 95K2
B1021	K42D	BK42D
B1001	K42E	K42E
B1022	L42B	L42B, BL42B, L42BG
B1041	L42C	L40C, 69-2037, BL42C
B1002	L42CJ	100-38 (Glass or metal)
B1023	M42B	BM42M, M42BG
B1024	KZ49B	50B2, 50B2MG
B1025	K49B	BK49B, W-43357, 135K1
B1026	KZ49C	50A2MG
B1033	K30B	BK30C, K49CB
B1037	K49D	BK49D, 33A4
B1042	L49B	2U-R224, 69, 2033, L49BG
B1046	L49C	L49-5.5C
B1003	L49CJ	100-37 (Glass or metal)
B1028	L49D	3CR-241
B1029	M49B	8593; BM49B, M49BG
B1004	M49C	M49C
B1050	K53A	K53A
B1051	K53B	BK53B, 3613, 55KB
B1034	K53C	K53C, BK53C, K53CG
B1052	K53CP	K53CP, K53CPR
B1043	L55B	2VR-215, BL55B, L55BG
B1044	L55C	L55, 5.5C
B1045	L55S1	L55S1
B1047	L55S2	L55S2
B1055	M55B	BM55B
B1005	M55C	BM55C
B1006	K67B	K67B
B1030	K70B	K70B
B1036	K74B	K72B, K73B
B1048	K74C	K74C, K72C, K73C
B1037	K80B	K79B, K78B
B1038	K87B	K90B, K86B
B1007	92A	90A, K92A
B1056	K92B	K90B, K85B
B1039	K92F	K90F
B1016	100-70	100-70
B1017	100-77	100-77
B1049	105A	K105A

List 80c.
In Lots of 5, Each, 24c.
NET EACH **24c**

AMPERITE BATTERY BALLASTS

High quality ballasts for battery sets. In addition to those listed below, we can supply all other Amperite ballasts. Shpg. wt., 1 lb.

To Replace	Use Amperite	To Replace	Use Amperite
1A1	5E1	10AB	5H1
1E1	5E1	6	1F1
1G1	4-1	6AA	5E1
1J1	6-1	5-1	5E1
1K1	5H1	LLL225	5E1
1N1	1N1	1A2	30
1V1	5H1	1B2	31

B1208. Specify type desired.
NET **73c**

SPECIAL AC-DC BALLASTS

Catalog No.	Amperite	Catalog No.	Amperite
B1170	60R30G	B1182	879R48
B1171	165R4	B1173	E157
B1174	200R	B1176	BKV510J
B1175	250R	B1177	W44338
B1172	320R4	B1178	100-77

NET EACH **59c**



CLAROSTAT BALLASTS

These universal resistors operate in AC-DC sets within the proper voltage ranges, regardless of pilot current drawn or pilot lamp combination. Av. shpg. wt., 1 lb.

10 FOR \$5.25.
NET EACH **57c**

Cat. No.	Mfg. Code	Type Base	Numbers From	Last Letter
B1285	10-23A	Octal	10-23	A, B, C, D
B1286	23-55A	4 Pr.	23-55	A, B, C, D
B1287	23-55F	Octal	23-55	F, G, H
B1288	60-92A	4 Pr.	60-92	A, B, C, D
B1289	92-105A	Octal	92-105	A, B, C, D



GENUINE G-E MAZDA PILOT BULBS

General Electric Mazda pilot light bulbs. Famous the world over for their quality, dependability, and long life. Standard bead coloring. Type 40, Brown bead; types 41, 43, 50, 51, and 55, White bead; types 42 and 46, Blue bead; types 48 and 49, Pink bead. Cheaper than foreign-made bulbs in the long run. *Indicates miniature bayonet base. †Indicates small round bulb.

RADIO PILOT LIGHT BULBS

No.	Type	Volts	Amps	EACH	PER 10
B1250	41	2.5	.50	\$0.09	\$0.54
B1252	43*	2.5	.50	.09	.54
B1251	42	3.2	.35	.12	.71
B1253	40	6-8	.15	.09	.54
B1257	50†	6-8	.20	.10	.59
B1258	51*	6-8	1.0	.07	.41
B1260	55*	6-8	.40	.07	.41
B1254	48	2.0	.06	.15	.88
B1259	49*	2.0	.06	.15	.88
B1255	44*	6-8	.25	.09	.54
B1256	46	6-8	.25	.09	.54
B1269	45*	3.2	.35	.12	.71
B1270	47*	6-8	.15	.09	.54

MAZDA FLASHLIGHT BULBS

Stock No.	Lamp No.	Cell Volts	Amp.	Price Each	Box of 10
B1262	223	2	2.2	0.35	\$0.09, \$0.54
B1263	233	2	2.3	0.27	.09 .54
B1264	13	3	3.8	0.30	.09 .54
B1265	14	2	2.5	0.30	.09 .54
B1266	136	5	6.2	0.30	.10 .59
B1267	136	5	6.2	0.30	.10 .59
B1268	248	2	2.4	0.80	.10 .59
B1280	605	5	6.0	0.50	.10 .59
B1281	112	1	1.1	0.22	.09 .54
B1282	222	2	2.2	0.25	.09 .54

MALLORY BIAS CELLS

Designed principally to bias first audio amplifier tubes in high gain amplifiers. Eliminates necessity of using high capacity cathode bypass condensers. May also be used to furnish initial bias for RF, IF, and AVC circuits. Size, only 1/2" by 3/4". Noiseless; non-reactive at audio frequencies. Provides a no-current potential of 1 or 1 1/4 volt \pm 10%. Cells may be used in series for higher voltages. Eliminates distortion caused by conventional biasing arrangements. Will last indefinitely if not overloaded. Holders listed below permit easy mounting of cells.

B11872. 1 Volt Type.
B11871. 1 1/4 Volt Type. EACH... **18c**

Bias Cell Holders

No.	Type	For	EACH
B11970	GB11A	1 cell	6c
B11972	GB11B	1 cell	9c
B11971	GB12	2 cells	12c
B11973	GB13	3 cells	15c
B11974	GB14	4 cells	21c



JFD ADJUSTABLE BALLASTS

This money-saving ballast tube kit solves your replacement problems easily and economically. Handy kit contains 2 type "A" 2 type "B," and 1 type "C" tubes, tools, and comprehensive data booklet. That's all you need for replacing more than 2000 types of the ordinary ballasts. A ballast for any job.

FREE REPLACEMENT GUIDE WITH KIT

Only a very simple adjustment is required to adapt tubes to your needs. The complete guide supplied gives all necessary information and valuable technical data. 2 lbs.

B1057. Ballast Tube Kit. NET... **\$2.75**

REPLACEMENT TUBES FOR ABOVE

B1058. Ballast A.	}	NET	Lots of 5
B1059. Ballast B.		EACH	EACH
B1060. Ballast C.		59c	55c

GENUINE G-E NEON GLOW LAMPS



Useful in many test instruments such as tube checkers, etc. Fill many uses as light source for stroboscopes, night lights, etc. Both electrodes glow on A.C.; only negative glows on D.C. For 105 to 120 volt operation.



EXTRA 10% DISCOUNT IN LOTS OF 10 EDISON TYPE BASE

No.	Type	Finish	Watts	EACH
B6452	G10	Clear	1/2	36c
B6451	G10	Clear	1 (200-240V.)	36c
B6453	G10	Clear	2	45c
B6450	S14	Clear	2	49c
B6455	S14	Orange	2	49c
B6456	S14	Red	2	49c
B6453	S14	Clear	3	54c

CANDELABRA BASE

No.	Type	Finish	Watts	EACH
B6454	T4 1/2	Clear	1/4	36c
B6475	G10	Clear	1/2	41c
B6476	G10	Clear	1	41c

B6466. Argon (blue fluorescence) bulb. Edison base; clear glass; 2 1/4 watts. **45c**

G-E RESISTORLESS TYPE

A neon type unit for use in voltage regulators, test instruments, noise silencers, and any high frequency equipment. There is no resistor in base of lamp. Can be matched to any test panel or instrument. An ideal lamp for panel indicator light. Has double contact bayonet base.

No.	Type	Finish	Watts	EACH
B6457	T4 1/2	Clear	1/4	41c
B6472	G10	Clear	1/2	41c
B6473	G10	Clear	1	49c
B6474	S14	Clear	2	49c

PORCELAIN SOCKETS



Designed for neon lamps. Edison base types are for standard light bulbs. Handy screw terminals for easy connection. *Metal shell over hard rubber.



No.	Base	Mount	EACH
B6459	Edison	Cleat	9c
B6460	Edison	Sub-panel	15c
B6461	Candelabra	Sub-panel	28c
B6401*	Bayonet	Sub-panel	21c

See page 176 for panel mounting sockets for candelabra base bulbs.

LITTELFUSE NEON BULB

One of the world's smallest neon bulbs. One volt, above minimum of 90 V. DC or 65 V. AC at 1 ma. Has 1/10 watt rating. A current limiting resistance is necessary where used on 110 or 120 volts AC. Suggested resistances are 100,000 ohms for 110 V. and 200,000 ohms for 120 V. Size, 1" x 1/4" dia. Ideal for panel lights.

B6274. NET... **18c**
B1575. 100,000 ohm Resistor... **4c**
B1575. 200,000 ohm Resistor... **4c**

KEN-RAD PIN-GAME BULBS

Will fit any "juke box" or Pin-game machine. Ideal for commercial automatic record player. Used for decorative purposes. For 115 V operation. All have Edison standard screw base.

ROUND BULBS

Watts	Clear	NET	Colored	NET
6	B1156	11c	*B1160	15c
10	B1157	16c	*B1161	13c
15	B1158	7 1/2c		
25	B1159	7 1/2c		

LUMILINE BULBS

Watts	Size	Clear	NET	Colored	NET
30	18"	B1150	64c	*B1153	7
40	12"	B1151	56c	*B1154	6
60	18"	B1152	64c	*B1155	7

*Red, Blue, Green.

†White, Straw, Moonlight Blue, Surprise P.

Specify colors when ordering.

See Page 200 for Complete Fluorescent Bulb and Accessory Listing.



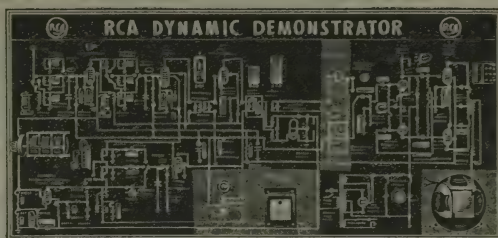
R. C. A. TEST EQUIPMENT



RIDER VOLTOHMYST

The R.C.A.-Rider Volt-Ohmyst is an excellent example of obsolescence-minimized equipment. Nine overlapping ranges, 0.5-10-25-100-250-500-1000-2500-5000 V. DC. Seven overlapping ohm-meter ranges from 0 to 1000 megohms. Has single zero reset. Steel chassis measures 7 1/4" wide, 8 1/4" deep, 11" high. With tubes. For 25-60 cycle, 105-130 volt AC. Shpg. wt., 15 lbs.

B15870. CASH.....\$57.50
\$5.75 down, \$7.12 mo. for 8 mos.



RCA DYNAMIC DEMONSTRATOR

The perfect demonstrator for teaching radio in technical high schools, vocational schools and colleges. Permits a visual, audible demonstration of the operation of a complex radio receiver. Group instruction easily possible on the typical 12 tube 3 band superhet with TRF stage, AFC, AVC, Phase Inversion and Push Pull. All vital operating points brought out to pin-jacks for voltage readings and wave-form analysis. The demonstrator is a complete radio made up on a "breadboard." Will play like any built-up set. 6 1/2" long, 29" high, 6" deep. For 115 V. 60 cycles. Wt., 62 lbs.

B16140. CASH PRICE.....\$125.00

Terms: \$12.50 down, \$15.47 monthly for 8 months.



155 3" OSCILLOGRAPH

R.C.A.'s finest general purpose 3-inch oscillograph. All controls mounted on front panel for convenient operation. Ideal for alignment, hum, distortion, and wave-form measurements. Sensitive amplifier, flat from 20 to 90,000 cycles. Amplifier gain is 40. Timing axis, 15-22,000 cycles. Blue-gray baked lacquer finish. Beautiful etched chrome front panel. Size: 15"x8"x14". For 115 volts; 50-60 cycles. Shpg. wt., 23 lbs.

B16141. CASH.....\$63.95

\$6.40 down, \$7.92 mo. for 8 mos.



161 SIGNALYST

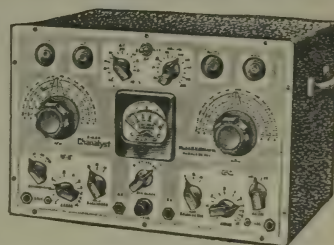
Here is a new instrument that provides an extremely wide frequency coverage. Built by an organization that knows the trend in radio and television, the RCA Signalyst minimizes the factor of obsolescence. Every feature for easier and more accurate operation has been built into this instrument. It will take care of today's needs as well as those of tomorrow. The tremendous frequency range

from 100 KC to 120 MC is covered in 10 bands on fundamentals. Large 3-colored scale is approximately 90 inches long. Magnetite core coils and air trimmer capacitors are used for stability and accuracy. Coils wound on "Stryol" forms; air trimmer capacitors insure permanent calibration. Circuits aligned at each end of every band to within 0.5% accuracy provide total dial calibration accuracy better than 1%. Ladder-type attenuator permits direct reading in microvolts per meter. Output signal is through a coaxial cable. Internal 400 cycle modulation and 400 cycle output are available. Self-contained heterodyne detector allows direct calibration of any external signal. The high signal output level enables checking single stages. Low range output is .05 volts, high range, 3 volts. Minimum output ranges are: 100 KC to 15 MC, 1 microvolt; 15 MC to 30 MC, 5 microvolts; 30 MC to 60 MC, 25 microvolts; and 60 MC to 120 MC, 50 microvolts. Highly attractive metal case with brush chrome finish. Size of case, 9 3/4" high, 14" long, 8" deep. For 115 V., 60 cycles. Shpg. wt., 21 lbs.

\$107.50

B15874. NET CASH PRICE.....

Time Payments, \$10.75 down, \$13.30 monthly for 8 months.



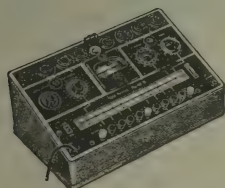
RIDER CHANALYST

The Rider Chanalyst opens a new era in the analysis of receiver troubles. It is based upon an entirely new method of set analysis, enabling the application of the same systematic diagnosis to all receivers, from the relatively simple set of yesterday to the highly complex receivers of today and tomorrow. Due to the fundamental design of this instrument, it is now possible for the first time to test receivers under theoretically ideal conditions. You can localize troubles in a particular stage or part of a receiver or amplifier with greater speed and efficiency than ever before. This is true no matter how complicated the circuit may be and regardless of the number or types of tubes used. The Chanalyst saves you time. You can check the signal at any point without disturbing operation of set. All testing is done without the use of any plugs or adapters. Traces signal through entire set; checks control voltages without interfering with set's operation; quickly locates intermittent conditions; checks output of oscillators, etc. Features: RF-IF channel employing 5 tubes covers a frequency range of 95 KC to 1700 KC in 3 bands; Oscillator channel with 3 tubes has oscillator operation coverage to 70 MC; AF channel uses 3 tubes, resistance-capacity coupling. Each channel employs cathode ray tuning eye indicator. Also has wattage indicator and wide range electronic voltmeter. Complete with all tubes, cables, and probes. The beautifully finished case measures 14"x9 1/4"x6 1/4". For 117 volts 60 cycles. Shpg. wt., 30 lbs.

\$107.50

B15872. Model 162. NET CASH PRICE.....

Time Payments: \$10.75 down, \$13.30 monthly for 8 months.



MODEL 156 TUBE TESTERS

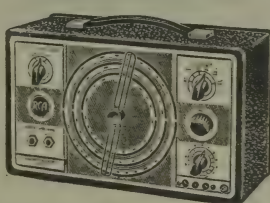
Incorporates the experience of the world's largest radio tube manufacturer. Ruggedly built for long, dependable service. Interlocking push-buttons prevent incorrect adjustment. Tests every type of receiving tube, including ballasts, the new battery types, and tubes with heaters up to 117 volts. Indicates line voltage up to instant of actual test. Not necessary to set line voltage before inserting tube in socket. Makes all tests according to RMA standards. Also tests flashlight bulbs, Xmas tree bulbs, etc. Equipped with spare socket. Metal case finished in gray wrinkle lacquer, with lithographed panel. Portable model has rugged cover and special handle. Size, 13 1/2" long, 5 1/4" high, 8" deep. For 100-125 V., 50-60 cycle use. Shpg. wt., 16 lbs.

B15875. Model 156E. Counter Type. CASH PRICE \$37.95

\$3.80 down, \$4.70 monthly for 8 months.

B15876. Model 156D. Portable Model with cover. CASH PRICE \$39.95

\$4.00 down, \$4.95 monthly for 8 months.



167 TEST OSCILLATOR

Six bands cover from 100 to 30,000 KC on fundamentals. The large 6 1/2" dial, over 50" in length, insures easy reading. RF output variable from 2 microvolts to 1 volt maximum. A 400 cycle 8 volt output is also available. With tubes. Size, 13 1/4"x9 1/4"x6 1/4". For 115 V., 60 cycles. Shpg. wt., 15 lbs.

B15877. NET.....\$34.50

ALLIED can supply all R.C.A. test units. The listing below is representative. Descriptive literature, **B15886**, will be forwarded free upon request. Most R.C.A. units are available on

No.	Model	NET
B15878.	150	\$ 64.50
B16142.	151-1"	39.95
B16143.	151-2"	49.95
B15879.	154	49.95
B15880.	157	46.50
B15881.	158	147.50

JUNIOR VOLTOHMYST

Here is a brand-new instrument having many of the fine features contained in the standard Rider Volt-Ohmyst. High input resistance (11 megohms) allows its use in signal carrying circuits. Wide voltage and resistance ranges, 0 to 1000 volts DC in 6 ranges; 0-1000 volts AC in 5 ranges; 0-1000 megohms in 6 ranges with a single zero adjustment. Fully protected against overloads. AC voltmeter completely isolated. Every serviceman should have a Jr. Volt-Ohmyst. Truly the foremost instrument in the Service field. Complete with tubes. Size, 10 1/4"x8 1/4"x5 1/4". For 105-125 V. 50-60 cycles. Shpg. wt., 12 lbs.

B15871. Model 165. CASH. \$34.95

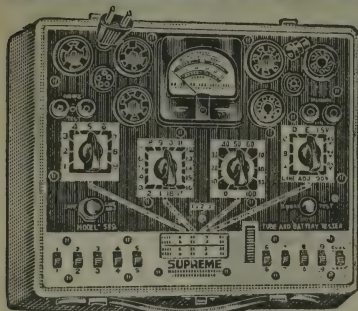


OTHER RCA QUALITY TEST INSTRUMENTS

convenient time payments. Write for application blank and T. P. details, or send deposit with order for quick service. Earn bigger profits with this dependable equipment.

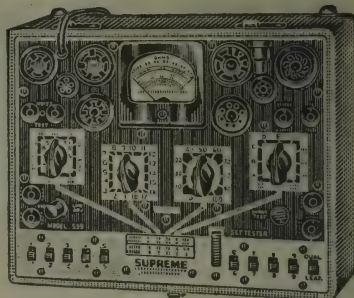
No.	Model	NET
B15882.	159	\$130.00
B16144.	160-5"	130.00
B15883.	9600	49.65
B15884.	9558	27.50
B15885.	9572	29.95

New SUPREME Test Equipment



NEW 589 AND 599 TESTERS

Two new instruments by Supreme incorporating exclusive engineering and design features that anticipate tube and circuit characteristics for years to come. You can lay these instruments with full confidence that they cannot become obsolete. Only Supreme provides the filament **Varivolt** system; allows the selection of any filament voltage from 1.4 to highest value used. Supreme continues the "double floating" filament return selector circuit allowing the selection of the proper filament return lead. Tube tester in both instruments provides a sensitive leakage test of all tubes. A pair of tip jacks also permits the use of phones for checking noise, leakage, loose and bad connections. Removable fast-acting roll chart in two colors is conveniently mounted with directional arrows leading to each functional switch. This simple arrangement greatly reduces the time required for checking tubes and speeds up your work.



MODEL 589 TUBE & BATTERY TESTER

This new Supreme Tester provides a complete test of all of the newest as well as all of the older type tubes. This includes local, single-ended, television, miniature, "7" series, gaseous rectifiers, magic tuning eyes, bantams, ballast tubes, pilot lights, etc. Each tube is tested under proper load and correct anode potential. Filament continuity of tubes is checked visually with a neon lamp. Tests are provided for separate sections of multi-purpose tubes. The Supreme 589 also permits checking batteries under loads at which they are designed to operate. Condition of battery is indicated directly on the "Replace-Good" scale of the 4" meter. Checks all 1.5, 4.5, 6, 45 and 90 volt portable radio batteries. Although low-priced, the 589 has "eye appeal." The panel has a ribbed black background offset by satin finished highlights. The 589 is housed in a sturdy, brown luggage type case with removable cover. Size is 11 1/2" x 9 1/4" x 5 7/8". For 115 V., 60 cycles AC. Shpg. wt., 12 lbs.

B10250. NET CASH PRICE.....\$29.35
Terms: \$4.00 down, \$3.63 monthly for 8 months.

589 IN METAL CABINETS

B10251. Model 589. With 7" meter in metal cabinet for counter or shop use. CASH PRICE.....\$39.15
Terms: \$4.50 down, \$4.39 monthly for 9 months.

B10252. Model 589. With 9" meter in metal cabinet for counter or shop use. CASH PRICE.....\$41.65
Terms: \$5.00 down, \$4.18 monthly for 10 months.



The type 589 and 599 may be had in attractive metal cases with 7" or 9" illuminated meters. They may be used in a horizontal position (illustrated) for counter use, or vertically for shop use by reversing the instrument panel. These models employ 2 leakage tests, one at 200,000 ohms, the other at 2 meg.

MODEL 599 TUBE & SET TESTER

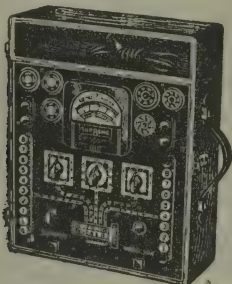
The Supreme 599 combines all the features of the 589 described at left, with a multi-range Volt-Ohm-Milliammeter. It is ideally suited for all types of radio service work. The various ranges are as follows: 0-6-15-150-600-1,500 V. DC at 1,000 ohms per volt; 0-6-15-150-600 V. AC; 0-6-60-600 ma.; DC; 0-200-20,000 ohms, 0-2-20 megohms, and 0-6-15-150-600 output voltage ranges. Readings as low as .2 volts are easily read on both the AC and DC scales. The copper-oxide rectifier for AC ranges is fully protected from overload damage. Low range of ohmmeter reads 3.5 ohms at center scale. The 599 provides an excellent means for checking leakage of paper condensers by means of the highly sensitive 20 megohm range. This is a much better method than using a neon lamp as the ohmmeter is calibrated. Leakage in electrolytic type condensers can also be readily checked. Highest quality parts and construction. Case size, weight, etc., identical with the Model 589. For 115 V., 60 cycle AC.

B10266. NET CASH PRICE.....\$38.71
Terms: \$4.50 down, \$4.33 monthly for 9 months.

599 IN METAL CABINETS

B10267. Model 599. With 7" meter in metal cabinet for counter or shop use. CASH PRICE.....\$48.95
Terms: \$5.50 down, \$4.50 monthly for 11 months.

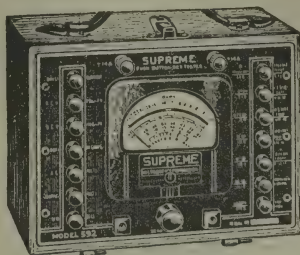
B10268. Model 599. With 9" meter in metal cabinet for counter or shop use. CASH PRICE.....\$51.45
Terms: \$5.75 down, \$4.33 monthly for 12 months.



MODEL 504 PORTABLE LAB.

A compact portable testing laboratory which combines a modern up-to-date Tube Tester with a 29 range Multimeter. Supreme's patented, double-floating filament return push-button selector system is a positive safeguard against obsolescence. The 504 provides correct filament voltages from 1.4 to full line voltage. The improved circuit accurately tests all types of tubes including bantams, miniatures, locals, octals, single-ended types, etc. The new rotary chart and "arrow-way" testing system assure speedy operation. A neon lamp provides two leakage tests, the R.M.A. standard at 200,000 ohms, and a second at 2 megohms. The 4" square meter has a "Good-Bad" scale. The Multi-meter circuit has a total of 29 ranges and functions: 0-5-25-100-250-500-1,000-2,500 volts DC at 1,000 ohms per volt; 0-500 microamps, 2.5-10-50-250 ma., and 0-1-10 amperes DC; 0-5-10-50-250-1,000 volts AC; 0-5-10-50-250-1,000 volts AC for output meter use. Ohm-scale has 5 ranges: 0-200-2,000-20,000 ohms, 0-2-20 megohms. All ranges except 2,500 volts DC and 10 amperes operate from one set of pin jacks. All condensers checked for leakage up to 20 megohms on meter. Electrolytics checked at working voltage. Oak case, hinged cover; black panel, aluminum trim, red and ivory fitting. Size: 14 1/2" x 12 1/4" x 6". For 110-130 V., 60 cycles AC. Shpg. wt., 21 lbs.

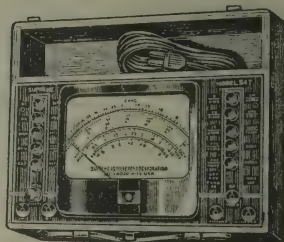
B10260. NET CASH PRICE.....\$64.63
\$7.25 down, \$5.94 monthly for 11 months.



MODEL 592 SET TESTER

Servicemen—it's here at last—the most complete test meter ever offered. The Supreme Model 592 Universal Multimeter is capable of making any conceivable test on all types of radio equipment. Meter movement is 40 microamperes, providing a voltmeter sensitivity of 25,000 ohms per volt. The 4" square Westinghouse meter has long easily-read scales. Larger wire on moving coil and larger hair springs provide maximum protection against overloads. Test prods remain in one pair of pin jacks for all readings except the high amperage range which is provided with special heavy-duty binding posts. Speedy, dependable operation is obtained by the use of 14 push-button switches; simply push one button on each side of meter, and any one of 45 ranges is instantly available. Button switches are of the self-locking industrial type. Forty-five ranges are as follows: 0-70-700 microamps, 0-7-35-140-350 ma.; 0-1-4-14 amps. DC; 0-3-5-7-35-140-350-700-1,400 volts DC at 25,000 ohms per volt and duplicated at 1,000 ohms per volt; 0 to 500-5,000-50,000-500,000 ohms, 0-5-50 megohms, all from self-contained battery supplied with instrument; 0-7-35-140-350-700-1,400 volts AC; 6 Output Meter ranges with built-in coupling condenser: -10 to +6, 0 to +16, +10 to +26, +20 to +36, +30 to +46db. Size, 7 1/4" x 9" x 6 1/8". Shpg. wt., 10 lbs.

B10262. NET CASH PRICE.....\$43.07
\$5.00 down, \$4.33 monthly for 10 months.



MODEL 547 MULTIMETER

The Model 547 incorporates the simplest, fastest and most convenient method of multi-range and circuit selection. Functional and range push-button switches each side of meter eliminate pin jack and rotary switch operation. This provides instant fingertip control of 36 ranges. The Model 547 has a large 7" illuminated meter permitting accurate readings to be made under adverse lighting conditions. All scales can be easily read two or three feet away from the instrument. The 36 ranges are as follows: 0-6-30-150-300-600-3,000 V. DC at 1,000 ohms per volt; 0-6-30-150-300-600 ma. DC; 0-6-30-150-300-600-3,000 V. AC; 0-2-20-20,000, 200,000 ohms, 0-2-20 megohms; -10/+4/+18/+32/+38/+44 db.; 0-2-2-20 mfd., and 0-6-30-150-300-600-3,000 output voltage ranges. Megohm ranges operate from AC; other ranges from self-contained battery. Meter multiplier resistors are of the aged metallized type. The beautiful oak carrying case has large compartment for test leads and accessories. Size 13 1/4" x 11 1/4" x 5". For 115 V., 60 cycles AC. Shpg. wt., 12 lbs.

B10253. CASH PRICE.....\$35.75
\$4.00 down, \$4.02 monthly for 9 months.

IN METAL CASE

The Model 547 is also available in an attractive metal case for shop use.
B10254. CASH PRICE.....\$33.25
\$4.00 down, \$4.17 monthly for 8 months.

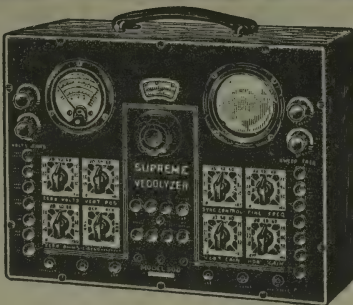
New SUPREME Test Equipment



MODEL 561 OSCILLATOR

The Model 561 offers five types of signal outputs: (1) Variable audio from 15 to 15,000 cycles; (2) Unmodulated RF from 65 KC to 20.5 MC on fundamentals and to over 60 MC on harmonics; (3) Variable modulated RF over same range; (4) Frequency modulated RF for visual alignment with a scope; (5) Means for varying the percentage of audio modulation from 0 to 80%. The audio oscillator output is 150 milliwatts at 50, 500, 5000 or 50,000 ohms impedance center-tapped. Response is flat ± 1 DB from 30 to 10,000 cycles. The 5 RF oscillator ranges are selected by pushbuttons. The accuracy is within $\frac{1}{2}$ of 1% at all frequencies. 6" illuminated dials with shadow-type indicators eliminate parallax. The built-in vacuum tube voltmeter and ladder-type attenuator permit pre-setting output from $\frac{1}{2}$ to 100,000 microvolts. Double shielding is employed throughout to minimize leakage. Band pass of the Frequency Modulator is 30 KC. The beautifully finished case measures 17 $\frac{1}{2}$ " x 9 $\frac{3}{4}$ " x 12". For 115 V. 60 cycles AC. Shpg. wt., 33 lbs.

\$86.75
B10218, NET....
\$9.50 down, \$7.32 monthly for 12 months.



560 "SEE-THE-SIGNAL" VEDOLYZER

A new technique developed by Supreme for dynamic trouble diagnosing. Actually shows wave-form of the signal at any stage of its journey through any receiver. Allows analysis of each circuit from antenna to speaker. Tests are made where application of ordinary test equipment would be useless. The Vedolyzer allows distortion to be traced to its source. Checks actual operating and signal voltages without disturbing receiver circuits. Easily and accurately determines AVC and AFC performance, oscillator feedback and injection voltages, RF signal and DC operating grid voltages, location, amplitude and frequency of hum.

DYNAMIC TROUBLE DIAGNOSING

The Vedolyzer contains (1) A broad-band amplifier with a band width from 20 cycles to 4.5 MC. Has two separate jacks for low and high input. Works into either internal scope or both scope and internal vacuum tube voltmeter. (2) 3" RF and AF oscilloscope with all circuits and controls necessary to measure modulation factor and distortion and view RF and AF wave forms. (3) Balanced bridge vacuum tube voltmeter with the following ranges: 0.2-6-20-60-200-600-6,000 V. DC, 0.3-9-30-90-300-900-3,000 V. AC, 0.1-1,000-10,000—1 meg.-1 meg.-10 meg.-100 meg.-1,000 meg. Has decimal type easy-reading meter scale. (4) Wave analyzer and frequency meter. (5) Multiple probe output for checking a number of stages simultaneously. Vacuum tube voltmeter requires only one zero adjustment for all ranges. For 115 V. 60 cycles AC. Size, 17 $\frac{1}{2}$ " x 13" x 12 $\frac{3}{4}$ ". Shpg. wt., 40 lbs.

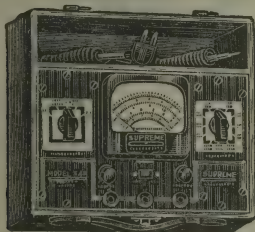
\$126.90
B10219, NET....
Terms: \$13.50 down, \$10.63 monthly for 12 months.



MODEL 562 AUDOLYZER

The Supreme Audolyzer is the fastest low-priced dynamic test instrument on the market. This new tester actually allows you to hear the demodulated signal from a station or test oscillator at consecutive points as it passes through the receiver. In none of these tests is the receiver de-tuned by the application of the probe. Consists of a high-gain tuned amplifier, covering all RF, IF, and SW frequencies in 5 bands, 100 KC to 15 MC. Complete with demodulator, audio system, and built-in speaker. Also contains a vacuum tube voltmeter with ranges of 0.1-3-10-30-100-300 and 1,000 volts DC, with an input impedance of 15 megohms. Vacuum tube voltmeter permits gain measurements to be made. Signal is traced through chassis under test by means of Audolyzer test probes and is heard in the loud-speaker. In following the signal, faulty circuit is indicated by lack of Audolyzer speaker response. Also checks stage by stage gain. Size, 17 $\frac{1}{2}$ " x 9 $\frac{3}{4}$ " x 12". For 115 V. 60 cycles AC. Shpg. wt., 32 lbs.

\$76.90
B10215, NET....
\$8.50 down, \$6.49 monthly for 12 months.



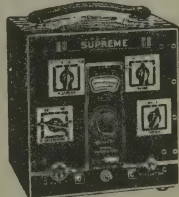
549 ELECTRONIC VOLTMETER

The Model 549 is a precision instrument designed to measure AC or DC voltages, DC current and resistance. The Electronic meter permits plate, screen, AVC, and AFC voltage measurements to be made without upsetting the circuit under test. Meter is fully protected against overloads. Voltages of either negative or positive polarity with respect to ground may be measured by setting the circuit selector switch to "+" or "-" volts. The 549 provides the following ranges: 0.2-6-20-60-200-600 V. DC at an input impedance of 15 megohms; 0-1-10-100,000 ohms; 0.1-10-1,000 megohms; 0-500 microamperes DC; 0.5-15-50-150-500 MA DC; 0.15-1.5 amperes DC and 0.5-15-50-150-500 V. AC. The latter ranges may also be used for output measurements. The DC voltage ranges may be increased to 6,000 volts by using the type 4875 test leads which are listed below. The input impedance of the 6,000 volt range is 150 megohms. The voltage multiplier is incorporated within the test leads and serves effectively to isolate probe from circuit under test. The beautiful quartered oak portable type case has large compartment for test leads and accessories. Size, 11 $\frac{1}{2}$ " x 10 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ ". For 115 V., 60 cycles AC. Wt., 10 lbs.

\$41.65
B10222, NET....
\$5.00 down, \$4.18 monthly for 10 months.
B10223, As above but in metal case. Less compartment and cover.....**\$39.15**
\$5.00 down, \$3.90 monthly for 10 months.

HIGH VOLTAGE TEST LEADS

B10226, TYPE 4875, Increases range of 549 to 6,000 V. DC. Heavy rubber insulation tested at 10,000 volts, 5 feet long.....**\$5.63**



MODEL 571 OSCILLATOR

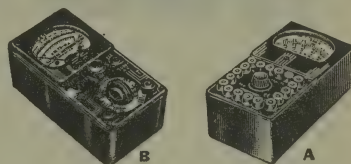
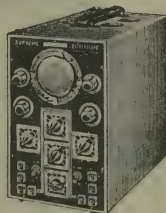
The 571 Signal Generator features extreme accuracy and stability. High "Q" coils plus air-dielectric condensers reduce error to less than $\frac{1}{2}$ of 1%. Five bands cover from 65 KC to 20.5 MC. Accurate harmonics are available up to 82 MC. An illuminated dial with a hairline eliminates parallax. Two modulation output levels, 30% and 75% at 400 cycles. The RF output on all bands is available from .1 volt to .5 microvolt through a double shielded attenuator. Output may be modulated externally by a phono pickup or a Frequency Modulator. Oak case, 10 $\frac{1}{2}$ " x 8 $\frac{1}{2}$ " x 8 $\frac{1}{2}$ ". Completely equipped with tubes, accessories and detailed instructions. For 115 V., 60 cycles

\$39.15
AC. Shpg. wt., 19 lbs.
B10255, NET....
\$4.50 down, \$4.39 monthly for 9 months.

546 3-INCH OSCILLOSCOPE

A real necessity in every up-to-date service shop and laboratory. The use of a cathode-ray tube having a 3" screen provides a more practical instrument than one using a smaller tube. Intermittent operation of a set, hum, sensitivity, over load, wave form distortion, etc., are quickly and easily checked. Visual alignment of RF and IF stages, checking the demodulation characteristics of second detectors and stage-by-stage gain measurements are but a few of the uses. Ideal for use with "signal tracing" instruments. All necessary controls are conveniently grouped on the front panel of the instrument. Supplied complete with instructions. For 115 V. 60 cycles AC. Size, 12 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ " x 7 $\frac{1}{4}$ ". Shpg. wt., 24 lbs.

\$63.20
B10258, NET....
\$7.00 down, \$5.33 monthly for 12 months.



POCKET MULTIMETERS

MODEL 542, Fig. A. Here is an extremely compact, portable pocket laboratory at a very low price. Has a knife-edged pointer to reduce parallax to a minimum. The 3" square meter has an accurate 200 microampere movement with a sensitivity of 5,000 ohms per volt. The 24 ranges of the instrument are as follows: 0.3-6-30-150 MA DC; 0.6-150-300-1,500 volts DC; 0.2-2,000-20,000-200,000 ohms and 0.2 megohms; 0.6-30-150-600 volts AC; 4 decibel ranges from -6 to -50, and 4 output ranges which are the same as the AC volt scales. All of the ohmmeter ranges, including the 0.2 megohm range, are operated by self-contained batteries. A single control knob takes care of all voltage, current and D.B. ranges in addition to the zero ohms adjustments. The durable black molded bakelite case has attractive metal panel. Size only 5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "; weighs only 23 ounces. Indispensable for use in making outside service calls or for general shop testing purposes. Supplied complete with self-contained batteries. Shpg. wt., 2 lbs.

\$15.97
B10228, NET....
\$4.73 down, \$4.73 monthly for 3 months.

MODEL 543, Fig. B. The 543 Pocket Multimeter is a beautifully designed, compact instrument at a remarkably low price. It uses a full size 3" one mil meter with a sensitivity of 1,000 ohms per volt. A single rotary type switch provides the following ranges: 0.15-150-600-3,000 V. DC; 0.6-60-600 MA DC; 0.15-150-600-3,000 V. AC and 0.2-2,000-20,000 ohms. With this instrument you can make AC and DC voltage measurements in amplifiers and radio or television receivers; and if you are a "Ham," you can use the high voltage ranges on your transmitter. In same case as above. Complete with self-contained batteries. Shpg. wt., 2 lbs.

\$11.70
B10227, NET....

TRIPLETT *Quality* TEST EQUIPMENT

1604 MULTI-PURPOSE SET TESTER

A sensational new Set Tester backed by Triplett's "Red Dot" Lifetime guarantee. Outstanding features are the 12 AC and DC voltage ranges, DC at 25,000 ohms per volt; 9 direct current ranges; low and high ohm ranges; complete Free-Point testing; condenser tester; and provisions for DB readings. Individual ranges are: 0-10-50-250-500-1,000-2,500 V. DC at 25,000 ohms per volt; 0-10-50-250-500-1,000-2,500 V.

AC at 1,000 ohms per V.; 0-50 microamperes, 0-1-10-50-250-500 ma. 0-1-2-20 amps DC; 0-500-20,000-200,000 ohms; 0-2-20 megohms; .001-30 mid. capacity range including electrolytic leakage test and provision for —20 to +55 DB readings. The Free-Point tester makes all series and parallel meter connections through 9 sockets, including Loctal, Miniature, and Bantam Jr. types. R.M.A. markings are employed. An exclusive patented circuit requires but one zero-setting adjustment for all resistance ranges. Rectifier incorporates a copper-oxide element which is pre-calibrated to a factory standard. Factory calibration is duplicated when rectifier is plugged into tester. It is unnecessary to return instrument to factory for recalibration. Housed in an attractive steel case with black suede baked enamel finish. Size, 14½" x 7½" x 4½". Panel is black, etched in red and grey. Case has leather strap handle and rubber feet. Snap-on cover has space for accessories. Complete less Loctal, Miniature and Bantam Jr. plug adapters listed at bottom center of page 55. For 115 V., 60 cycles AC. Shpg. wt., 26 lbs. **\$48.84**

B9958. NET CASH PRICE

Time Payments: \$4.89 down, \$6.05 monthly for 8 months

1613 PORTABLE TUBE TESTER

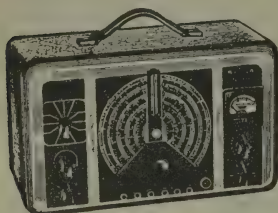
This new Tube Tester with 7" illuminated meter features the Triplett "Red Dot" Lifetime guarantee. Full assurance against obsolescence is made possible by a filament transformer variable in steps from 1.1 to 110 volts. The Model 1613 has a fully balanced RMA tube testing circuit with leakage test for cathode to heater, or between any two elements. Checks for open filaments. Separate tests for multi-section tubes. It will not pass tubes which will not operate properly in a radio set or an amplifier. Provides for Loctal, "S," Miniatures, Bantam Jr., and Magic-Eye tubes, ballasts, gas rectifiers, and pilot lamps, as well as the older types of glass, metal, spray-shield, etc. Has a noise-test phone jack and a separate line voltage meter. The illuminated roll chart provides maximum speed and simplicity of operation. The seamless steel case is finished in baked suede enamel with silvered grey and maroon trim. Size is 15½" x 11½" x 6½". For 115-125 V. 60 cycles AC. Shpg. wt., 42 lbs. **\$34.14**

B9987. Portable Tester. NET

MODEL 1612 COUNTER TESTER

B9986. Same as the Model 1613 described above, but less cover and carrying handle. Case size is 15¼" x 11½" x 6". **\$29.24**
Shpg. wt., 38 lbs. **NET**

MODEL 1632 METERED SIGNAL GENERATOR



A new wide-range Signal Generator featuring accuracy and stability beyond anything previously demanded in the test equipment field. Provides continuous coverage on 10 bands from 100 KC to 120 MC. All frequencies are fundamentals. Adequately takes care of all IF, BC and SW ranges as well as the new high frequencies being used for Television and Frequency Modulation. A meter is incorporated for measuring input into the multiplier and attenuator. This is ideal for making stage by stage gain measurements. The output of the 1632 is fed through a coaxial cable to minimize losses and strays. A voltage regulator tube and air-trimmer capacitors assure high stability and accuracy. The large accurately calibrated tuning control eliminates all backlash. The 1632 provides the following outputs: internal modulated, unmodulated, AF and provision for external modulation. Housed in a streamlined metal case. 15" x 9" x 6¼". Finish is silver-grey suede electro-enamel. Snap-away handle. For 115 V., 60 cycles AC. **\$78.24**
Shpg. wt., 31 lbs.

B9967. NET

\$7.82 down, \$9.68 monthly for 8 months

MODEL 1631 ELECTRONIC SIGNAL GENERATOR



A Frequency Modulated Signal Generator covering from 100 KC to 30 MC in 6 bands. Has unusually large dial with scale length of 52½". Frequency modulation is continuously variable from 3

KC to 40 KC. Ideal for use with an oscilloscope. Other outputs are CW, 400 cycle internal, and external modulation. Variable attenuator from full output to zero. Black suede electro-enamel finished metal case, 14½" x 7½" x 4½". Snap-on cover. For 115 V., 60 cycles AC. With tubes. **\$53.90**
Shpg. wt., 30 lbs.

B9968. NET

\$5.39 down, \$6.67 monthly for 8 months

FOR EASY TERMS PURCHASE SEND DEPOSIT WITH ORDER

Please include 3 business references and your information with order. Time payment forms will be forwarded immediately for your signature. This will speed up handling of your order. Time payment terms, where available, are given under each instrument. Pay while you earn.

MODEL 1600E ULTRA-SENSITIVE TESTER

A new impressive tester with a DC sensitivity of 25,000 ohms per volt. Ranges are: 0-10-50-250-1,000 V. DC at 25,000 ohms per volt; 0-50-250 microamperes DC; 0-1-10-50-250-500 ma. DC; 0-10-50-250-1,000 V. AC at 1,000 ohms per volt; 0-500-20,000-200,000 ohms and 0-2 megohms. The 7" Triplett "Red Dot" Lifetime Guaranteed meter has an illuminated dial with each scale in contrasting colors. The streamlined case is maroon, and the panel is ivory trimmed in maroon. Size is 15" x 9" x 4". With batteries and all accessories in portable case. Shpg. wt., 17 lbs. **\$24.99**

B9951. NET

B9952. Illustrated. As above, **\$20.58**
less case. 13 lbs. **NET**



1672 VIBRATOR TESTER



The Model 1672 through its rotary switches offers many anti-obsolescence features. It is designed to thoroughly check all 6-volt vibrator. Dial has 3 scales, 0-10 V. showing input to vibrator, a "Good-Bad" merit scale, and a 0-100 scale for checking output of vibrator under standard input conditions. The new roll chart assures fast operation. Instrument is fused. Metal case with blue-grey suede electro-enamel finish measures 14½" x 7½" x 4½". Operates from 6 volt storage battery (not supplied). With accessories including clips. Shpg. wt., 21 lbs. **\$29.24**

B9953. NET

PUSH-BUTTON MODEL 1671

B9973. Same circuit and features as the 1672 described above but push-button operated. **\$39.04**
\$3.90 down, \$4.83 monthly for 8 months

MODEL 1620 GIANT-SCALE TUBE TESTER



A sensationally new development in Tube Testers by Triplett. Every precaution has been taken to provide against obsolescence. Even in case of unanticipated radial tube changes the 1620 need not be discarded, nor will expensive remodeling be required. This is made possible by the 4 separate panel sections—socket, meter, roll chart, and switching and power supply. They can be replaced at a nominal cost with a trade-in allowance for the old sections. A new flexible lever-type switching system gives individual control of each tube prong. Filament voltages are available from 1.1 to full line voltage. Tests all receiving tubes. A neon bulb shows the inter-element shorts and leakages while cathodes are hot. The "Red Dot" Lifetime guaranteed 7" meter has a "Good-Bad" scale in colors. A separate meter is used for line voltage. Wood case with natural finish measures 18½" x 10¼" x 6¼". Chrome trim. For 110-130 V. 60 cycles AC. **\$37.08**
Shpg. wt., 25 lbs.

B9954. NET

\$3.70 down, \$4.59 monthly for 8 months

MODEL 1621 TUBE TESTER

The Model 1621 counter or portable Tube Tester is similar to the Model 1620 described above. It is housed in a smaller, more readily portable case. Has a 4" square Triplett "Red Dot" Lifetime Guaranteed indicating meter with a "Good-Bad" scale. Panels are tan with ivory sockets, knobs and markings. Size 12½" x 7" x 10". Shpg. wt., 27 lbs. For counter use only; less carrying case. For 110-130 volts 60 cycles AC. **\$34.14**

B9955. NET

B9956. Carrying case for 1621.... **\$4.90**



TRIPLETT *Quality* TEST EQUIPMENT

1200-A VOLT-OHM-MILLIAMMETER

A compact universal AC-DC Volt-Ohm-Milliammeter featuring a Triplett "Red Dot" Lifetime guaranteed instrument. Twin meters in single case have separate AC and DC movements. DC meter reads: 0-10-50-250-500-1000 volts at 2000 ohms per volt; 0-1-10-50-250 ma; 0-1500 ohms—1.5 meg—3 meg. Has an additional "Backup" low-ohm scale of 0-500 ohms with 15 ohm center scale reading. AC meter reads: 0-10-50-250-500-1000 volts. Voltage scales are direct reading; ohmmeter scales have individual adjustments. Meter case, $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ ". With leads, prods and batteries.

\$21.40
B9941. Wt., 12lbs. NET

1200-C — 5,000 OHMS PER VOLT

Same as Model 1200-A, but sensitivity is 5,000 ohms per volt. Has additional 250 microampere scale, and a $7\frac{1}{2}$ megohm range instead of the 3 megohm range. Complete with batteries, test leads, and accessories. Shpg. wt., 13 lbs.

\$22.38
B9943. NET

1200-E — 25,000 OHMS PER VOLT

Similar in appearance and design to Model 1200A, but the DC meter has a circuit resistance of 25,000 ohms per volt. Reads 0-1000-40,000 ohms—440 megohms. Also has 0-50 microampere scale. Complete with all accessories. Shpg. wt., 13 lbs.

\$25.32
B9944. NET

1252 V. T. VOLTMETER

Incorporates a "Red Dot" Lifetime guaranteed twin-instrument of the tilting type having individual movements. The galvanometer indicates bridge balance while the other meter is a 4 range voltmeter reading peak AC and DC volts. Instrument is automatically calibrating — an exclusive Triplett development. The tube on end of cable reduces input capacity to less than 6 mmfd. Input resistance, 10 megohms on AC. Ranges are 0-3-15-75-300 volts. Ideal for high frequency use. Metal case finished in brown suede enamel; $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ ". Modernistic three-tone panel. For 110-125 V. 60 cycle AC. Wt., 18 lbs.

\$47.36
B9925. NET

NET CASH PRICE.....
\$4.74 down, \$5.86 a month for 8 months.
Send deposit with order for quick service.

MODEL 1251

Model 1251 self-calibrating Vacuum Tube Voltmeter is the same as the Model 1252, but has tube mounted inside the case rather than on the cable. Shipping wt., 18 lbs.

\$46.72
NET CASH PRICE.....

\$4.67 down, \$5.79 a month for 8 months.
Send deposit with order for quick service.

MODEL 1280 HIGH VOLTAGE TESTER

An ideal instrument for testing high voltages such as those encountered in television receivers, transmitters, etc. Every precaution has been taken to safeguard the operator of this tester. Metal contacts and instrument parts are removed a minimum of one inch

from the sides of the case. The test lead prods are inserted through holes in the top panel to the jacks in the sub-panel beneath.

RANGES TO 10,000 VOLTS

The Model 1280 will measure 0.2-500-10,000 V. DC at 25,000 ohms per volt. The same ranges are available in AC at a sensitivity of 5,000 ohms per volt. Also measures 0-50-500-5,000 microamperes DC. Tester incorporates a Triplett "Red Dot" Lifetime Guaranteed 4" instrument in an insulated molded case mounted beneath the front panel. The sturdy metal case with red suede enamel finish measures $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ ". Has snap-on cover. Accessories include a set of test leads tested at 25,000 volts. Shpg. wt., 10 lbs.

\$30.87
B9948. NET

MODEL 1213 TUBE TESTER

A new Tube Tester by Triplett which carries the "Red Dot" Lifetime guarantee. Circuit used is of the approved RMA type. Unique feature of the 1213 is the hinged card index tube chart. It permits a rapid and convenient means for locating the various tube types. Sections of the chart can be quickly changed when new tubes are added, thus keeping them in their proper order. New tube listings for each section will be mailed promptly to registered owners as soon as new tubes are announced.

MAKES TELEVISION TUBE TESTS

The Model 1213 tests Loctals, Bantam Jr. high voltage series including the 11726, Single End types, Octal, Magic Eyes, Pilot Lamps, Ballasts, Metal, Glass, MG, Gas Rectifiers, Spray Shield, Television and the new miniature type tubes. Filament voltages are available from 1.1 to 110 volts making the instrument obsolescence-proof. It has a fully balanced circuit with leakage test for cathode-heater and inter-elements (with short test between any two elements), provisions for checking open filaments, hot leakage check, and separate tests of full-wave rectifiers. Bad tubes are easily identified and rejected. Has 3" Triplett "Red Dot" Lifetime guaranteed meter with a "Good-?Bad" scale. A separate meter is used for line voltage control. The attractive case of the Model 1213 is finished in brown suede enamel. Size is $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ ". The three-tone panel is brown, tan and red with silver markings. Snapon covers.

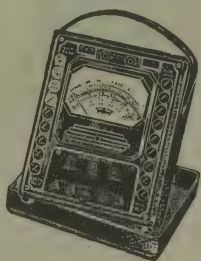
For 110-125 V. 60 cycles AC. Shpg. wt., 14 lbs.

\$21.56
B9936. NET

"LOOK FOR THE RED DOT" LIFETIME GUARANTEE

The new, exclusive "Red Dot" on Triplett test equipment is your positive guarantee that the measuring instrument will give you a lifetime of service. Absolutely nothing is sacrificed to build Triplett Instruments and Testers to the highest standards of performance. Complete catalog covering all Triplett test instruments available FREE on request. Ask for Catalog B9999.

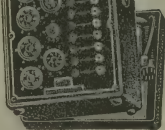
MODEL 1200-F AUTOMATIC VOLT-OHM-MILLIAMMETER



The Model 1200-F is a push-button operated, automatic V-O-M providing maximum speed and minimum switching. Only one button need be pressed for any range. The self-locking buttons are color-coded for the various scales. Depressing one button releases any other. The Model 1200-F provides the following ranges: 0-10-50-250-500-1,000 V. DC at 25,000 ohms per volt; 0-10-50-250-500-1,000 V. AC at 1,000 ohms per volt; 0-50 microamperes, 0-1-10-50-250 ma DC; 0-500-300,000 ohms and 0-1-10-30 megohms. A built-in condenser permits output readings using the AC scales. Meter is a 4" Triplett "Red Dot" Lifetime instrument. The plug-in rectifier simplifies replacement in case of accidental damage. The attractive metal case with rich brown suede enamel finish measures $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ ". Three-tone panel in brown, tan and red. With all accessories. Shpg. wt., 13 lbs.

\$27.28
B9945. NET

MODEL 1220-C FREE-POINT TESTER



An up-to-date tester for the Free-Point method of testing. All series and parallel connections are made through the 9 R.M.A. marked sockets. Panel includes 8 automatic switch-type and 10 single action jacks. Streamlined metal case $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ " with brown enamel finish two-tone panel. Complete with all adapters except Loctal, Miniature and Bantam Jr., listed below. Shpg. wt., 10 lbs.

\$13.07
B9979. NET

B9996. Loctal Adapter..... EACH
B9997. Miniature Adapter..... EACH
B9998. Bantam Jr. Adapter..... \$1.64

1232-A SIGNAL GENERATOR

New improvements in this reasonably priced Signal Generator permit performance approaching that of laboratory precision equipment. 6 bands cover from 115 KC to 30.5 MC. Calibrated coils assure accuracy. The large 180° dial opening improves readability. Total scale length is over 50". Triple shielding and line filters minimize leakage. Perfect attenuation. 400 cycle audio note available. The $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ " metal case is finished in brown suede enamel. Panel is brown, tan and red. Snap-on cover. For 110-125 V. 60 cycle AC. Wt., 18 lbs.

\$29.24
B9946. NET

MODEL 1231-A

Same as the Model 1232-A described above but designed for battery operation. Uses 1-22½ volt and 3-flashlight cells which can be obtained anywhere. Size and appearance identical with the Model 1232-A. Supplied with a complete set of self-contained batteries and all accessories. Ideal for portable work. Shpg. wt., 15 lbs.

\$26.95
B9947. NET

MODEL 1270 APPLIANCE TESTER

An advanced electrical circuit analyzer that measures the wattage consumption, amperes and line voltage of all household appliances and small motors. Ideal for refrigerators, washers, radios, irons, etc. Low scale range of 0 to 20 watts permits checking the smallest of appliances. Ranges of the Model 1270 are: 0-20-500-1,000-2,000-4,000 watts AC; 0-260 ma, 0-6.5-13-26 amperes AC, and 0-130-260 V. AC. 4" square Triplett "Red Dot" Lifetime guaranteed Dynamometer type meter. Black suede enamel metal case measures $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ ". Modernistic panel is black with silver markings. Has detachable strap handle with removable cover. For 2 or 3 wire, 60 cycle AC. With 2 leads. Shpg. wt., 14 lbs.

\$29.23
B9980. NET

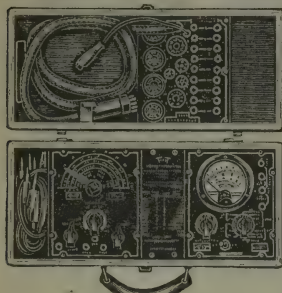
1290 INDUSTRIAL TESTER

This tester permits simultaneous readings of AC voltage and current. Ranges are 0-1.5-3-15-75 amperes AC and 0-150-750 V. AC. Separate meters are incorporated in the twin case. Black suede metal case, $7\frac{1}{8} \times 6\frac{1}{2} \times 5\frac{5}{8}$ ", with removable cover. Complete with leads. Shpg. wt., 13 lbs.

\$45.74
B9981. NET CASH PRICE.....
\$4.57 down, \$5.66 monthly for 8 months.

TRIPLETT Quality TEST EQUIPMENT

MODEL 1181-C PORTABLE LABORATORY

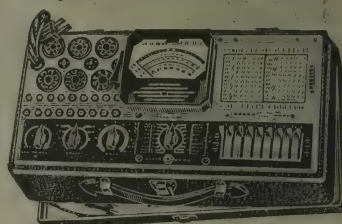


A compact, portable laboratory consisting of three separate instruments housed in one case. It is designed for complete circuit analysis and is ideal for both shop use and outside service calls. The Model 1181-C consists of the following instruments: (1) Direct-reading Signal Generator, (2) Volt-Ohm-Milliammeter, and (3) Free-Point Auxiliary Set Tester. The Signal Generator covers from 115 KC to 18 MC in four ranges and has a direct-reading dial scale. Ideal for aligning and balancing all radio receivers. Separate 400 cycle audio output. Circuit is battery operated. The Volt-Ohm-Milliammeter will make all radio and amplifier measurements including point-to-point analysis. It incorporates a Triplett "Red Dot" Lifetime guaranteed meter with the following scales: 0-15-75-150-750 V. DC at 1,000 ohms per volt; 0-1.5-15-150 MA DC; 0-1,500 ohms, 0-1.5-3 megohms; 0-15-75-150-750 V. AC and 0-15-150 MA AC. The AC voltage scales may be used for output measurements. The Free-Point Tester is designed for standard analysis tests and is used in conjunction with the Volt-Ohm-Milliammeter. Equipped with sockets to accommodate all types of receiving tubes. All circuits are brought out to jacks on the panel. This permits repairing radio troubles without removing chassis from cabinet. The Model 1181-C is supplied complete with analyzer cables, test leads and all necessary adapters. Polished oak case measures 16 1/2" x 7 1/2" x 4 1/4". Has removable cover in which Free-Point Tester is housed. Tubes, batteries and instructions are included. Shpg. wt., 18 lbs.

\$4394
B9976. NET CASH PRICE.

Time Payments: \$4.39 down, \$5.44 monthly for 8 months.

MODEL 1183 COMBINATION TESTER



The Model 1183 is one of the most versatile test instruments on the market today. It combines in one compact carrying case a Volt-Ohm-Milliammeter, a modern up-to-date Battery Checker and a Free-Point Tester. The Volt-Ohm-Milliammeter section provides the following ranges: 0-10-50-250-500-1,000 V. DC at 1,000 ohms per volt; 0-1-10-50-250 MA DC; 0-10-50-250-500-1,000 V. AC; 0-500-1,500-150,000 ohms and 0-1.5 megohms. The AC voltage ranges may also be used for output readings. Meter is a Triplett "Red Dot" Lifetime guaranteed instrument. Separate line voltage meter insures greater test accuracy. Scales are extra long and assure easy, accurate readings. The conclusive tube testing circuit is of the approved R.M.A. type. It employs the same operating controls as used on Models 1620 and 1621 described in detail on page 52. Tests all present-day tubes including Loktal, Miniature, and Bantam Jr. The filament voltage switching from 1.1 to 110 volts precludes obsolescence. A neon bulb shows the slightest interelement shorts and leakages while cathode is hot. The flexible lever-type tube switching gives individual control for each tube prong. Speed roll chart can be spun from one end to the other in less than 4 seconds. The Free-Point Tester makes all series and parallel meter connections. Has sockets for all present day tubes. Plug adapters for Loktal, Bantam Jr., and Miniatures are not supplied. See page 53. The brown suede baked enamel metal case measures 14 7/8" x 7 7/8" x 4 7/8". Leather strap handle. Has snap-on cover. For 110-125 V. 60 cycles AC. Wt., 21 lbs.

\$4884
B9977. NET CASH PRICE.

Time Payments: \$4.88 down, \$6.05 monthly for 8 months.

TRIPLETT POCKET VOLT-OHM-MILLIAMMETER

MODEL 666H 5000 VOLTS



A new and improved instrument built around a sensitive, accurate "Red Dot" Lifetime guaranteed meter. Provides the following scales: 0-10-50-250-1,000-5,000V. AC-DC at 1,000 ohms per volt; 0-100-100-500 MA DC; 0-300-250,000 ohms. Higher resistance readings may be obtained with external battery. A compensated copper-oxide

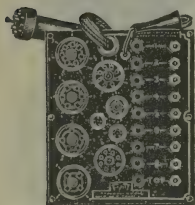
rectifier assures accurate AC voltage readings. Complete with battery and specially insulated test leads with clips, tested at 11,000 volts. Black molded case and panel, 3 1/4" x 5 7/8" x 2 1/8". Shpg. wt., 4 lbs.

\$14.20
B9926. NET.

Model 666, 1,000 Volts. Same as 666H but less 0-5,000 V., and 0-500 MA scales. Has additional 1 MA DC and 0-500 V. ranges. **\$13.72**
B9928. NET.

B9929. Attractive leather carrying case with handle for the above instruments. Holds tester and accessories. **NET....\$3.59**

TRIPLETT FREE-POINT SET TESTER 1166-C



The Model 1166-C is designed for use with any Volt-Ohm-Milliammeter. It permits voltage, current and resistance measurements to be made without removing chassis from cabinet. Tube from set under test is placed in proper socket of the Free-Point Tester and

adapter plug of Tester inserted into socket of set. Series parallel meter connections are made through the nine RMA marked sockets. All circuits are brought out to 9 switch type and 9 single jacks located on panel. Equipped with sockets which will accommodate all present day tubes including Loktal, Bantam Jr., Miniature and Midget types. Complete with instructions and plug. For plug adapter selection see pages 53 and 64. Etched metal panel. Without case. Shpg. wt., 8 lbs.

\$11.60
B9940. NET.

HANDY "LITTLE TRIPLETT'S"



A series of matched instruments for all service or electrical work. All have 3" Triplett "Red Dot" Lifetime guaranteed meters. Red molded cases, 3 1/4" x 5 7/8" x 2 1/8". Ivory panels with red trim. Av. shpg. wt., 4 lbs.

B9959. MODEL 671. Fig. A. An AC Ammeter having many uses. Self-contained current transformer permits following ranges: 0-1-2.5-5-10-25 amperes AC. For 60 cycles.

B9960. MODEL 671. Fig. B. An AC Milliammeter invaluable for service, laboratory or experimental work. The ranges are: 0-5-10-25-50-100-250-500-1,000 milliamperes AC.

B9961. MODEL 672. Fig. B. An AC Voltmeter particularly adapted for testing electrical appliances, motors, etc. The three ranges are: 0-150-300-750 volts AC.

B9962. MODEL 673. Fig. B. Rectifier-type AC Voltmeter. Ideal for use where limited power is available. The eight ranges are: 0-5-10-25-50-100-250-500-1,000 V. AC.

B9963. MODEL 674. Fig. A. A DC Ammeter measuring from a fraction of an ampere to 25 amperes. Self-contained shunts. The five ranges are: 0-1-2.5-5-10-25 amperes DC.

B9964. MODEL 675. Fig. B. A DC Milliammeter covering all the needs in radio servicing and experimental work. The ranges are: 0-1-5-10-25-100-250-500-1,000 MA DC.

B9965. MODEL 676. Fig. B. A DC Microammeter. External resistors can be used for voltmeter readings at 20,000 ohms per volt. 0-50-100-250-500-1,000 microamperes DC.

B9966. MODEL 677. Fig. B. A DC Voltmeter with a sensitivity of 1,000 ohms per volt. Resistors self-contained. Ranges: 0-1-2.5-5-10-25-50-100-250-500-1,000 volts DC.

B9969. MODEL 678. Fig. B. An Ohmmeter with self-contained batteries. Ranges: 0-1,000 ohms (10 ohms center scale); 0-10,000 ohms (100 ohms center); and 0-1-10 megohms. List Each, \$13.50. **\$8.82**
NET EACH.

CARRYING CASE

Carrying case for holding any three "Little Triplett's." Has compartment for test leads, etc. 10 1/2" x 8 1/2" x 3 1/2". 2 lbs. **\$2.45**
B9957. NET.

MODEL 2000 PORTABLE APPLIANCE TESTER

Combination watt-voltmeter. Essential for electricians and radio servicemen. Provides a quick and accurate means of testing power consumption of radio receivers, electric iceboxes, household appliances, and motors under actual operating conditions. The tester contains a wattmeter and a voltmeter of the twin instrument type. Line voltage and wattage may be read simultaneously. Wattmeter ranges are 1500 watts at 220 volts and 750 watts at 110 volts. Current rating of the Model 2000 is 7.5 amperes. The dual voltmeter scale provides readings of 0-130 and 0-260 volts AC. Tester has two toggle switches, one to control the two voltmeter scale readings, and the other to protect the wattmeter during the starting period of the motor load. Heavy leather carrying case with handle; 6 1/2" x 4 1/2" x 3 1/4". Space inside for accessories. Shpg. wt., 6 lbs.

\$18.94
B9950. NET.

MODEL 2001

B9974. Same as Model 2000 but has switch to permit use with any current transformer having a 5 amp. secondary for higher wattmeter readings. **\$20.25**
NET.

MODEL 2002

B9975. Same as Model 2000 but reads to 10 amperes. Wattmeter ranges are **\$19.28**
 0-1500-3000 watts. **NET.**

PRECISION PORTABLES BY TRIPLETT



Triplett now offers a complete new line of portable instruments for Experimental, Laboratory and Industrial use. Models 625 DC moving coil type; Models 635 AC movable iron type and Models 665 electrodynamicometer type. The mirror scales on white enameled metal dials are hand calibrated. Pointers are the knife edged type for easy, accurate readings. Indicial length of all instruments is 4.58". Accuracy is held to within 1%. Sensitivity values are furnished with each meter. The attractive black molded case measures 6" x 5 1/2" x 2 1/2". Detachable leather strap handles. Convenient binding posts at top of instruments. Write for FREE descriptive circular B9954. See Triplett panel meters listed on page 63.

Readrite

TEST EQUIPMENT

432A-742 TUBE TESTER & V.O.M.



An outstanding quality test instrument at a price within the reach of everyone. It combines the Model 432-A direct-reading Tube Tester (described at right) with an accurate, high grade Volt-Ohm-Milliammeter. The latter section has a separate panel which contains the range selector switch, the ohmmeter zero adjuster, and pin-jacks. Uses a 3" Triplett "Red Dot" meter with lifetime guarantee. Ranges of the Volt-Ohm-Milliammeter section are: 0-10-50-250-500-2,500 V. DC at 1,000 ohms per volt; 0-1-10-100 MA DC; 0-500 (with 25 ohms at center scale)—100,000 ohms; 0-1-5 megohms and 0-10-50-250-500-2,500 V. AC. The ohmmeter circuit is battery-operated (batteries not supplied), and provides highly accurate resistance measurement scales. This type of circuit is preferred by many servicemen who demand more accuracy than that obtained from ordinary ohmmeter power supply circuits. The zero adjustment is knob-operated. Professional-appearing black leatherette-covered case, suitable for both counter and portable use. Removable hinged cover and large compartment for test leads, etc. Silver and black modernistic panel. Requires 1-1½ V. Burgess No. 1 and 1-22½ V. Burgess No. 4156 or equivalent. Case measures 13"x10½"x1". For 110-125 V., 60 cycles AC. Shpg. wt., 20 lbs.

B9906. NET. **\$27.29**

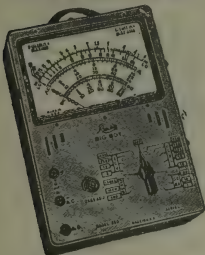
432A DIRECT-READING TUBE TESTER



The Readrite Model 432-A is a brand new quality tube tester. It incorporates a square 3" precision "Red Dot" lifetime guaranteed Triplett meter with a 3-colored "Good-Bad" direct-reading scale. Meter has 2 high-quality sapphire jewel bearings. A separate shadow-type AC meter permits accurate line voltage adjustments. An emission type circuit is used for its reliability and ease of operation. The proper voltages as specified by the R. M.A. and the tube manufacturers, are applied to the tube under test. Unsatisfactory tubes are easily detected. The Model 432-A quickly and accurately checks metal, glass, sprayshield, metal-glass, gas rectifier, octal, Loktal, Bantam Jr., high-voltage series, 1.4 V. midgets, miniatures, and ballast tubes. Separate plate tests can be made on diodes and rectifiers. A sensitive neon bulb determines the slightest inter-element leakages and shorts. Revised tube charts are furnished free to all registered owners. Attractive black leatherette case with handle and removable cover for counter or portable use. Has roomy compartment for tools and accessories. 10¼"x9½"x6¼". For 110-125 V., 60 cycles AC operation. Shpg. wt., 18 lbs.

B9908. NET. **\$18.47**
B9907. Model 432-A. Same as above but has no compartment in case. **NET.** **\$17.49**

NEW 860 "BIG BOY" VOLT-OHM-MILLIAMMETER



A sensational new V-O-M engineered in keeping with today's demands for professional type test equipment. Provides all necessary ranges which are easily read on the large 6" scale. The three-tone case with maroon body, cream-yellow panel and red trim is the last word in design. Ideal for shop or outside use.

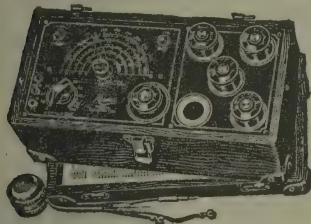
WITH 7" TRIPLETT METER

The 7" Triplett meter provides the following ranges: 0-10-50-250-500-1,000 V. DC at 1,000 ohms per volt and AC at 400 ohms per volt; 0-1-10-100 MA DC; 0-500-100,000 ohms and 0-1.5 megohms. Also enables readings from -20 to +55 db. A self-contained battery is supplied for 0-500-100,000 ohm ranges. A 22½ volt battery, not supplied, is required for 1.5 megohm range. Case measures 11½"x7½"x4½". Attached handle for portability. With instructions, accessories and test leads. Shpg. wt., 18 lbs.

\$17.49

B9914. NET.

557 SIGNAL GENERATOR

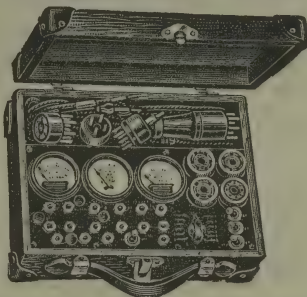


The Model 557 is a direct-reading all-wave Signal Generator covering from 110 KC to 20,000 KC in 5 bands on fundamentals. Unexcelled for field servicing and a valuable service shop bench instrument. Individually calibrated plug-in type coils, set a new standard for obtaining laboratory accuracy at low cost. Instrument is completely shielded against all static and magnetic fields. Strong signals, both modulated and unmodulated, are available. Perfect attenuation and stability are outstanding features. Free from frequency drift, output attenuation or battery voltage changes. The large, easy-reading dial, with translucent pointer, is extremely accurate on all 5 bands. The attractive black leatherette case measures 12"x6½"x5½" when closed. Panel is silver and black. Removable cover. Supplied complete with coils, tubes, batteries and instructions. Tubes are laboratory tested and pre-aged. Shpg. wt., 12 lbs.

\$18.52

B9905. NET.

MODEL 710A SET TESTER

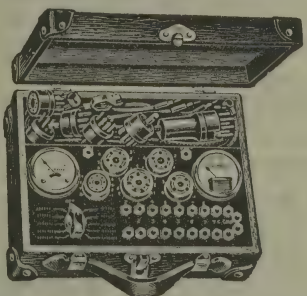


This Readrite Standard Analyzer completely and accurately tests all parts of any receiver circuit. The meters may be connected into the various circuits for measuring voltages and currents. This is done by means of the analyzer cable, plug, and adapters. The 3 meter ranges are: 0-15-60-300-600 V. DC; 0-15-150 MA, DC; and 0-10-140-700 V. AC. External jacks permit using these 9 scales separately. A 12 position selector switch connects the meters into various parts of the circuit under test. Provision has been made for measuring resistance up to 100,000 ohms and for testing condensers. Leatherette covered case measures 11"x8½"x4". With plug, cable, adapters, and full instructions. 10 lbs.

\$16.17

B9902. NET.

MODEL 720A ANALYZER



Measures resistance, capacity, current and voltage of any circuit. Tests made by plugging into receiving set sockets. The tester's socket terminals are arranged according to R.M.A. standards. Has separate AC and DC meters which provide following ranges: 0-15-150-300-600 V. DC; 0-15-150 MA DC; 0-10-25-150-750 V. AC. Tester has compartment for analyzer cable, plug, and adapters. Leatherette-covered case, 11"x8"x4½". With analyzer cable, plug, adapters and instructions. Shpg. wt., 10 lbs.

\$14.70

B9900. NET.

POCKET VOLT-OHM-MILLIAMMETERS MODEL 739



Uses a Triplett "Red Dot" 3" meter with sapphire bearings. Ranges are: 0-15-150-750-1,500 V. AC and DC at 1,000 ohms per volt; 0-1-15-150 MA DC; and 0-500-500,000 ohms with internal battery supplied. Rotary switch selects ranges. Sturdy molded case has rounded corners. Size, 3½"x5½"x2½". With battery, test leads, and alligator clips. Shpg. wt., 5 lbs.

B9912. NET. **\$9.70**

MODEL 738

The "Red Dot" 3" Triplett meter has genuine sapphire bearings. Ranges are: 0-15-150-750-1,500 V. DC at 1,000 ohms per volt; 0-1-15-150 MA DC; 0-500-500,000 ohms with internal battery supplied. Molded case, 3½"x5½"x2½". Complete with test leads, and alligator clips. Wt., 5 lbs.

B9913. NET. **\$7.35**

612 UNIVERSAL



The 612 uses a 3" "Red Dot" type Triplett precision meter with sapphire bearings. Ranges are: 0-15-150-450 V. AC and DC; 0-15 MA AC and DC; 0-20,000-100,000 ohms and .01 to 20 mfd. Selector switch for all ranges. Current supply for ohmmeter is from either AC or DC source by means of cord and plug. Black molded case is 3½"x5½"x2½". Has silver and black panel. No batteries required. With test leads. Shpg. wt., 5 lbs.

B9910. NET. **\$7.79**

POCKET DC VOLT-OHM-METERS MODEL 511



A handy pocket-size instrument for DC voltage and resistance testing. Uses a square Readrite meter with full open dial. Reads 0-3-30-300 V. DC, and 0-10-100,000 ohms. Wood case, 2½"x2½"x2". Furnished with self-contained 3 volt battery and leads. Shpg. wt., 3 lbs.

B9919. NET. **\$2.79**

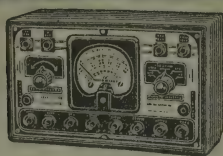
MODEL 510

Similar to the Model 511 described above but has scales reading 0-300 V. DC and 0-10,000 ohms. Black wood case only 2½"x2½"x2". Complete with self-contained 3-volt battery for ohmmeter circuit and test leads. Ready for operation. Shpg. wt., 3 lbs.

B9920. NET. **\$2.20**



DEPENDABLE TEST EQUIPMENT

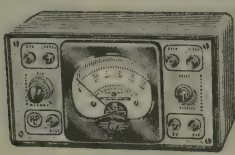


446 AC-DC MULTITESTER

The 446 is the equivalent of 25 separate units housed in a single case complete with batteries. The 3" square D'Arsonval meter with bakelite case has a sensitivity of 1,000 ohms per volt. Ranges are as follows: 0-5-50-250-500-2,500 volts DC; 0-1-10-100-1,000 ma., DC; 0-10 amps. DC; 0-10-100-500-1,000 volts AC; 0-500-100,000 ohms, 0-1 megohm; -8 to +15, +12 to +35, +26 to +49, +32 to +55 db., and 4 output ranges same as the AC volts. The low range ohmmeter scale is of the low-drain backup type and reads as low as 1 ohm. Center of scale reads 10 ohms making it ideal for measuring voice coils, shorted turns, poor contact resistance, etc. A selector switch on the attractively finished front panel provides convenient operation. Case measures 3"x8 1/2"x5". Complete with self-contained batteries for the ohmmeter ranges. Shpg. wt., 4 lbs.

B10400. NET. \$975

B10401. Model 446P. Same as above, but in portable solid walnut case with hinged cover and latch. Set of test probes included. Case has compartment for probes. **\$11.27**

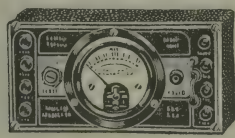


433 DC MULTITESTER

A Dependable Multitester in extremely compact form. Uses a 3" square meter with a guaranteed accuracy within 2%. Exceptionally low price without sacrifice of high quality. Ohmmeter shorting switch allows convenient zero ohms adjustment. Ranges are: 0-5-50-1,000 V. DC at 1,000 ohms per volt; 0-1-10 ma., DC; back-up low ohm scale 0-500 ohms; conventional 0-500,000 ohms. Hardwood case, 6"x3"x2 1/2". With battery. Wt., 2 lbs.

B10402. NET. \$6.32

B10403. Model 433P. Identical with Model 433 except in portable hinged cover case of hand-rubbed solid walnut. **\$7.79**



432 TROUBLE SHOOTER

Here is an instrument that is priced lower than any other type of D'Arsonval volt-ohm-milliammeter. The 432 has the following ranges: 0-5-50-500-1,000 volts D.C. at 1,000 ohms per volt; 0-500-500,000-500,000 ohms with self-contained batteries; and 0-1-10 ma., D.C. Center scale reading of low-range ohmmeter circuit is 10 ohms. Not necessary to use test prods for zero-adjusting the 3 ohmmeter ranges. Has an attractive etched panel and a welded steel case with morococo finish. Size: 5 1/2"x3"x2". Wt., 3 lbs.

B10404. NET. \$5.83

B10405. Model 432P. Same as above except in hinged cover case. **\$7.30**

AC-DC MODEL 456

The 456 is "tops" in a miniature AC-DC V.O.M. The accurate D'Arsonval meter has a sensitivity of 1,000 ohms per volt. Ranges are: 0-5-50-500-1,000 V. A.C. and D.C.; 0-1-10 ma. D.C.; 0-5,000-500,000 ohms and -12 to +54 db. Has self-contained battery for all ohmmeter ranges. In hardwood case, 6"x3"x2 1/2". Shpg. wt., 3 lbs.

B10406. NET. \$7.79



802 TUBE AND SET TESTER

A high-grade instrument combining an ultra-modern tube tester and a V.O.M. The 4 1/2" rectangular D'Arsonval meter with sapphire jewels has extra-long multiple scales in 3 colors. Tube tester section tests all old and new tubes, including miniatures, according to RMA standards and provides filament voltages up to full line voltage; tests all ballasts; hot inter-element short and leakage tests on each individual element; continuous line voltage regulation from 103 to 135 volts; a noise and hum test and individual tests of multi-purpose tubes. Meter protected by fuse. Unique AC voltage measurements have linear scales to coincide with DC ranges. Self contained power supply. The V.O.M. ranges are: 0-10-50-500-1,000 V. DC at 1,000 ohms per volt; 0-1-10-100-1,000 ma., DC; 0-10 amps. DC; 0-500-5,000 ohms; 0-1-10 megohms; 0-10-50-500-1,000 V. AC; -8 to +55 db. in 4 ranges and 4 output ranges. Also checks condenser leakage. Panel in frosted silver, black and maroon. Case with hinged cover; 12"x12 1/2"x6". For 115 V. 60 cycles. With test leads. Wt., 12 lbs.

B10407. NET PRICE. \$27.39
\$4.10 down, \$4.27 monthly for 6 months.

WITH PLUG-IN SET ANALYZER

Model 802A. A new instrument that is the same as the 802 described above but with an analyzer unit in the cover. Permits all measurements to be made at socket terminals. **B10408. NET CASH PRICE. \$37.73**
\$3.77 down, \$4.67 monthly for 8 months.

803A TUBE AND SET TESTER



The Model 803A tube and set tester combines in one compact case the Model 802 tester listed above with the Rolinides tube chair plus an analyzer unit built into the cover. Analyzer uses an improved multiple selector circuit. Provides for metering current, voltage, resistance and capacity at socket terminals. Complete with toggle latch, bakelite plug and 7 adapters.

14 1/4"x13"x6". Wt., 14 1/4 lbs. **B10419. NET. \$42.63**

\$4.26 down, \$5.28 monthly for 8 months.

803 TUBE AND SET TESTER

Same as Model 803A above except without Analyzer unit. Luggage type case. 14 1/4"x13"x6". Wt., 13 lbs. **B10420. NET. \$32.29**

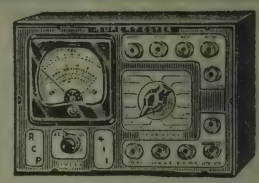
\$4.85 down, \$5.03 monthly for 6 months.

413 AC-DC POCKET MULTITESTER

A V.O.M. with a 3" 2,500 ohm-per-volt meter. Reads 0-10-50-250-1,000-5,000 V. DC; 0-10-100-1,000 ma. DC; 0-10 amperes, DC; 0-500-100,000-1,000,000 ohms and 0-400 microamps DC; 0-10-50-250-1,000-5,000 V. AC; -10 to +69 db. in 5 steps, and 5 output meter ranges, same as AC volts. Wood case, 3 1/2"x6"x2 1/2". With batteries. Wt., 1 lb.

B10421. NET. \$12.64

B10422. Model 413P. Same as Model 413 but with hinged cover, latch and a set of test leads. **NET. \$14.65**



MODEL 411 SUPERTESTER

The Dependable Model 411 is one of the most versatile instruments ever produced. It is ideal for television and radio servicing, ham work and general industrial use. Outstanding features are: bakelite jacks providing a large safety margin when measuring high voltages; high current ranges, both A.C. and D.C. for motor work; low ohmmeter range for voice coils, high resistance contacts, etc., and high ohmmeter ranges for checking leaky condensers. Uses a 3" square meter with a sensitivity of 5,000 ohms per volt. Ranges are: 0-10-100-250-1,000-5,000 volts A.C. and D.C.; 0-200 microamps D.C.; 0-10-100 ma., D.C.; 0-400-40,000-4,000,000 ohms; -10 to +69 db. in 5 steps; 0-1-10-25 amps. D.C.; 0-500 ma. A.C. and 0-2.5-5-25 amps. A.C. Output meter ranges same as A.C. volts. Center scale reading on low ohmmeter range is only 5 ohms. In wood case, 7 1/8"x5 1/2"x3 1/2". 31 lbs.

B10423. Model 411. NET. \$1592

B10424. Model 411P. Same as Model 411 but in a portable hinged-cover case. **NET. \$17.59**



MODEL 414 MULTITESTER

The Model 414 is a multi-range tester offering many unique advantages. The 4 1/2" D'Arsonval meter has a 450 microampere movement. A new system for AC measurements provides higher accuracy and greater sensitivity than is obtainable with copper oxide rectifiers. Scales coincide with the DC scales and thus prevent crowding. An outstanding advantage of the 414 is its use as a direct-reading capacity meter. Scales from .0001 mfd. to 300 mfd. in 5 ranges. 5 ohmmeter ranges provide readings from 0 to 15 megohms. Center of low ohm scale reads 2.5 ohms. 5 AC and DC voltage scales from 0 to 5,000 volts. Sensitivity is 2,000 ohms per volt. Six DC current ranges read up to 25 amperes. Also reads inductance from .25 to 1,000 millihenries, and from .25 to 10,000 henries. Supply line and meter are fused. For 115 V. 60 cycles. Shpg. wt., 8 lbs.

B10425. Model 414. Open face bench type. Case size: 9 1/8"x9 1/4"x5 1/4". NET. \$21.51

B10426. Model 414P. Portable model. With 3 1/2" deep cover. Solid maple case. **NET. \$23.51**

702 SIGNAL GENERATOR

Continuously variable from 95 K.C. to 25 M.C. in 5 bands on fundamentals and to 100 M.C. on harmonics. Calibrations are etched directly on the panel. Output unmodulated or modulated 30% at 400 cycles. Automatic shorting of coils not in use prevents dead spots. 400 cycle supply is available for external use, 6 volt maximum. Excellent shielding by leaded steel case and chassis. Leakage eliminated by separate shielding of coil assembly, attenuator and RF circuits. Size, 8"x11 1/4"x5". For operation on 115 V. 60 cycles. Shpg. wt., 15 lbs.

B10427. NET. \$2249



Other R.C.P. Dependable instruments listed on the following page. Write for free booklet B10428 describing complete line. Convenient time payment terms on R. C. P. orders over \$25.00. Send 15% deposit and 3 business references.

Modern

TEST EQUIPMENT

"RADIO CITY PRODUCTS" DEPENDABLE TUBE TESTERS

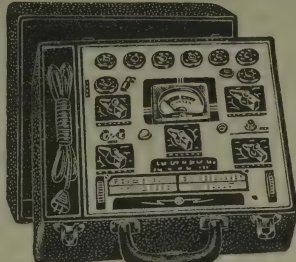


MODEL 309C

A new Dynoptimum Tube Checker providing reliable performance at low cost. 3" square D'Arsonval meter. Tests metal, M.G., glass, gas rectifiers, octal, loktal, single ended, bantam jr. and miniature tubes. Gives filament voltages up to full line voltage. Tests are made under RMA specified plate voltages and loads; considered the finest co-relative test. Provision for audibly checking noisy tubes. A Neon indicator is used for hot inter-element shorts and leakages. Line voltage is adjustable from 105 to 135 volts and is indicated directly on meter assuring accurate readings. Size 9"x12"x5". For 115 V. 60 cycles. Shpg. wt., 10 lbs.

B10410. Model 309C. Counter Model, NET..... \$15.63

B10411. Model 309P. Portable and Counter Model. Size, 11 1/2"x12"x7". For 115 V. 60 cycles. Shpg. wt., 12 lbs. NET..... \$16.61



MODEL 310P

The famous Dynoptimum Tube Tester combined with the Rolindex Chart in one convenient instrument. Tube tester characteristics are identical with Model 309 listed at left. Case has lid and tool compartment. Size, 13 1/4"x13"x4 1/4". Shpg. wt., 12 lbs.

B10412. Portable-Counter \$23.37

B10413. Identical with above except with 4 1/2" rectangular meter. CASH..... \$25.43 \$3.81 down, \$3.96 monthly for 6 months.

MODEL 310C COUNTER TESTER

Sloping front, 3" meter and Rolindex chart. Includes free new tube listing service. Size, 13"x11 1/2"x7 1/2".

B10414. NET..... \$21.50

B10415. As above with 4 1/2" meter. NET..... \$23.47

MODEL 312C

An exceptionally attractive tube merchandiser providing maximum convenience and speed for tube testing and selling. Vertical bench type. Uses the famous Dynoptimum testing circuit with a 9" meter. Tests all new and old tubes including miniatures; ballast tubes and pilot lights. Provides filament voltages up to full line voltage. Hot interelement short and leakage test; noise test; tests individual sections of multi-purpose tubes. Rolindex chart provides speedy selection of tube characteristics. Size, 11"x18 1/2"x7 1/2". Shpg. wt., 16 lbs. For 115 V. 60 cycles.

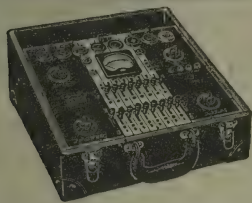
B10416. CASH PRICE..... \$29.35 \$4.40 down, \$4.57 monthly for 6 months.

B10417. MODEL 312P. As above but in carrying case. 13"x18 1/2"x9". 17 lbs. CASH PRICE..... \$32.19 \$4.80 down, \$5.02 monthly for 6 months.

B10418. MODEL 308. Like Model 312C except less Rolindex chart. Separate celluloid covers and tubes supplied. NET CASH PRICE..... \$25.43 \$3.81 down, \$3.96 monthly for 6 months.



R. T. L. INSTRUMENTS



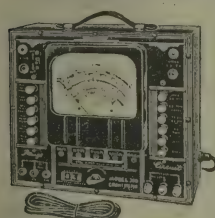
MODEL 120 TUBE AND BATTERY TESTER

The Model 120 offers the solution for the prevention of obsolescence in tube testing equipment. The professional-appearing switching system is actually very simple to operate. Short test is made while tube is heated. Complete inter-element leakage test. Bridge circuit allows adjustment to definite rejection limits. 3" square meter with two color illuminated dial. Three DC voltmeter ranges provided for testing batteries in portable sets. Scales are 0-10-100-1000 V. DC. Filament voltage taps range from 1 to 117 V. Tests all 4-5-6-7, octal, loktal, miniature, bantam and CK series tubes. Grey portable case, 14"x13 1/2"x1 1/4" with carrying handle. For 115 V. 60 cycles. Wt., 17 lbs.

B10126. NET CASH PRICE..... \$38.22 \$3.82 down, \$4.73 monthly for 8 months.

B10125. Counter Model. NET CASH PRICE..... \$36.75 \$3.68 down, \$4.55 monthly for 8 months.

MODEL 300 CIRCUIT TESTER



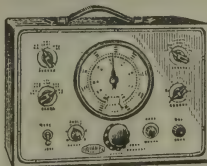
A 46 range push-button controlled V.O.M. and V.T. V.M. Ranges on 7" meter are: 0-12-30-120-300-600-1,200 V. DC at 5,000 ohms per volt and AC at 1,000 ohms per volt; 0-6000 V. DC and AC at 10,000 ohms per volt; 0-3-30-120-300 MA. 0-1-12-120 amp.

B10127. NET..... \$43.61 \$4.36 down, \$5.39 monthly for 8 months.

B10128. Battery Kit.NET..... \$1.48

POPULAR TRIUMPH INSTRUMENTS

130 VIDEO SIGNAL GENERATOR



The Model 130 has a range from 100 KC to 96 MC. Frequency calibration is within 1/2 of 1% on a dual scale 350° full vision dial. Double shielding. Direct-reading ladder type attenuator. Maximum output is 1/4 volt. A pure audio sine wave, variable from 0 to 2 1/2 volts, is also available. The percentage of modulation may be adjusted from 0 to 75%. Output may be modulated externally. Uses 2-6J5GT and 1-6SA7 tubes which are supplied. 13 1/4"x9"x7" metal cabinet. For 105-125 V., 60 cycles. Shpg. wt., 22 lbs.

B10120. NET..... \$29.35

MODEL 830 OSCILLOGRAPH & WOBBULATOR



Combines a 3" cathode ray oscillograph and a frequency-modulated wobulator. Amplifier response is 10 to 100,000 cycles. Deflection sensitivity through amplifier, 4 volts per inch; direct to plates 18 volts per inch. Sweep range 7 to 30,000 cycles. Wobulator has variable band width from 0 to 50 KC synchronous and electronic frequency-modulated at 1,000 KC. Black-wrinkle case, 10"x7 1/2"x14". For 105-125 V., 60 cycles. Wt., 28 lbs.

B10119. Model 830. CASH PRICE..... \$78.35 \$7.83 down, \$9.69 monthly for 8 months.

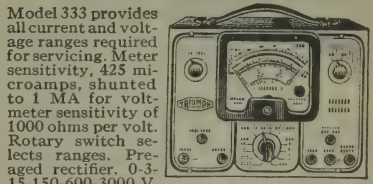


632 PERCENT-O-METER BATTERY TESTER

Tests batteries under proper load. 5 ranges from 0 to 7 1/2 V. for A and 6 ranges from 0-135 V. for B batteries. Replace when 55% below new condition. 4 1/4" x 6 5/8" x 2". With leads. 4 lbs.

B10124. NET..... \$10.73

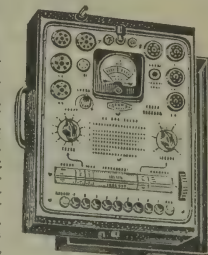
333 MULTI-RANGE METER



Model 333 provides all current and voltage ranges required for servicing. Meter sensitivity, 425 microamps, shunted to 1 MA for voltmeter sensitivity of 1000 ohms per volt. Rotary switch selects ranges. Pre-aged rectifier. 0-3-15-150-600-3000 V. DC and AC; 0-6-6-60-300 MA. DC and 0-15 A. DC; 0-10000-100000 ohms and 0-1-10 megohms; -20 to +64 decibels. Provision for additional 0-6000 V. AC and DC range and 0-100 megohms. Self-contained batteries. In steel carrying case, with attractive black wrinkle finish. Convenient strap type handle. Case measures 9 1/4"x6 1/4"x4". Complete with batteries. Shpg. wt., 9 lbs.

B10123. NET..... \$21.50

MODEL 444 PORTABLE TUBE TESTER



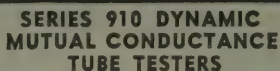
An ultra modern tube tester with many outstanding features. Test all makes and types of receiving tubes regardless of socket connections or filament voltages. Designed to meet any future requirement. Tests loktal, gas rectifier, miniature, hearing aid, bantam junior, and magic eye tubes as well as pilot lights and all small base bulbs. Spinner type roll feed chart provides rapid tube reference. Features: automatic push buttons, individual inter-element tests, detects opens, shorts and leakage, checks filaments from 1-117 V., large easy reading meter, provides plate load compensation for small tubes. Metal case with removable cover. 11"x12"x9 1/2". Shpg. wt., 14 lbs. For 105-125 V. 50-60 cycles.

B10121. NET..... \$29.35

COUNTER TUBE TESTER

Identical with portable type above but for counter use. Both models have ivory color panels with instructions and designations in raised black engraving. Size, 12 1/4"x9 1/2"x3 1/4". Shpg. wt., 16 lbs.

B10122. NET..... \$29.35



and Glass types. Diodes, rectifiers, and multi-purpose tubes are fitted separately from same socket. All ballast tubes can be checked for opens, loose elements, and leakage. Neon leakage indicator. Pin-jacks permit testing tubes for noise by means of earphones. The meter instantly indicates any tube having an open element. Roll-type tube chart permits quick readings. Hardwood portable carrying case with removable cover. Walnut finish. Size: 12"x13"x6". For 115 V., 60 cycles. Shpg. wt., 18 lbs.

Terms: (On 912P only.) \$3.52 down, \$4.36 monthly for 8 months.

An open vintage suitcase, likely from the early 20th century, is shown. Inside, a collection of baseball cards is neatly arranged in rows. The cards feature various players, including one with a prominent number '10'. A baseball glove is placed in the center of the card display. The suitcase has a dark, possibly leather or faux leather, exterior with a metal handle and latch. The interior is lined with a light-colored material. The overall scene suggests a collection of sports memorabilia being transported or stored.

acrew base and bayonet type pilot lights. Accommodates all filament voltages from 1.4 to 120 volts. The automatic push-button system is assurance against obsolescence. The meter instantly indicates any tube having an open element. Checks each section of multi-section tubes. Tests vacuum of individual sections. Tests heater voltage. Test jacks are incorporated for earphone use. Built-in double window roller tube chart for speedy tube references. The 920 provides the following ranges: 0-12-60-300-600-1,200-3,000 V AC and DC at 1,000 ohms per volt; 0-1.2-12-120-600 MA DC; 0-12 amps. DC; 0-400-1000 ohms; 0-1000 ohms. Includes 1000 ohm test leads. Operates on 110 or 220 v. as AC volts. Hardwood portable type carrying case, 12" x 13" x 6". With battery and test leads. For 110 V. 60 cycles. Shpg. wt., 20 lbs.

CASH PRICE EITHER MODEL..

Terms: \$5.28 down, \$6.54 monthly for 8 months

\$3.71 down, \$4.60 monthly for 8 months.

B12033.
NET.....\$14.65


B12048. \$35.23
CASH PRICE.....
\$3.52 down, \$4.36 monthly for 8 months.

An open, dark-colored leather carrying case for a pocket watch. The case is rectangular with rounded corners and a metal clasp on the right side. Inside, a pocket watch is visible, showing its face with Roman numerals and a small seconds sub-dial at the 6 o'clock position. The watch is resting on a light-colored, patterned lining. The case is shown from a slightly elevated angle, revealing its depth and the texture of the leather.

B8425. CASH PRICE..... \$39.20
\$3.92 down, \$4.85 monthly for 8 months.

Send for **B8428** FREE descriptive Literature.

A black and white photograph of a vintage Zenith radio receiver. The device has a rectangular, boxy design with a prominent circular speaker grille in the center. Above the grille, the brand name "Zenith" is written in a stylized script. Below the grille, there is a frequency scale labeled "FREQUENCY" with markings for various radio bands. To the left of the grille, there are several control knobs and a small dial. To the right, there are more knobs and a larger circular dial, possibly a volume or tuning control. The overall appearance is that of a classic 1930s or 1940s portable radio.



This instrument is indispensable for providing overall fidelity checks on audio amplifiers and receivers, determination of modulation capability, checking for speaker rattle, etc. Covers from 20 to 16,000 cycles per second. Has sinusoidal wave form with maximum distortion under 2%. Output flat within 1.8 db. over range. Has a 15-volt RMS output into a 100,000 ohm load. Grey wrinkle finish metal cabinet, 7 1/2" x 9". Full-vision dial. Use 2-6C5, 1-6C4, 1-60. Has a 60-cycle calibrator. Complete with tubes. For \$159.60 cycles. Shpg. wt., 10 lbs. **\$24.45**

B4245, NET.

Send for **B9309** FREE descriptive literature.

NOTE: We can supply all Precision Test Units. Ask for B12035 Precision Catalog.



QUALITY TEST EQUIPMENT



MODEL 510X DYNAMIC TUBE & SET TESTER

A desirable combination of a complete set tester and tube tester. Tube tester circuit is identical to Model 530 described below. The 5-inch meter has a scale length over $4\frac{1}{2}$ ". Ranges: 0-20-200-500-1,000 V. AC and DC, all ranges at 1000 ohms per volt; AC scales indicate output; 0-20-200 MA DC; 0-25 meg. in 3 ranges (no batteries used); .0001 to 24 mfd.; checks leakage of all condensers. No copper oxide rectifiers used. All rectifiers are electronic. Provides linear scales for AC and DC. Also checks inductance of chokes. Instructions supplied for reading decibels. Beautifully finished case, $14\frac{1}{2} \times 13\frac{1}{4} \times 6\frac{1}{2}$ ", with engraved metal panel. Tube chart inside of removable cover. 110-125 V., 60 cycles. Shpg. wt., 23 lbs.

B15850. CASH PRICE.....\$67.62

Time Payments: \$6.76 down, \$8.36 monthly for 8 months.

530 DYNAMIC TUBE TESTER

Indicates Dynamic Mutual Conductance in micromhos plus "Good-Bad." Has 4" square meter with multi-color illuminated dial. Tests all new filament voltage tubes up to 120 volts, as well as loktal, octal, miniatures, gas tubes, magic eyes, battery tubes, pilot lamps, and ballasts. Each element tested separately. Short tests made hot or cold. Roll type tube chart. For 110-120 V., 60 cycles. Wt., 22 lbs.

**B15851. Portable Type, $14\frac{1}{2} \times 13 \times 6\frac{1}{2}$.
B15852. Counter Type, $14\frac{1}{2} \times 16 \times 6\frac{1}{2}$.
CASH PRICE, EITHER MODEL.....\$55.27**

Time Payments: \$5.52 down, \$6.84 monthly for 8 months.

MODEL 155 TRACEOMETER



Features Meterized Dynamic Signal Tracing at its best. Any one or all five channels may be used at the same time without disturbing set operation. Design of vacuum-tube voltmeter circuits prevents meter damage from accidental overload. Measures signal in microvolts at any RF or IF point in set. Indicates all DC, AVC, AFC, power supply, etc., voltages and all AF or AC voltages in any circuit. Measures oscillator voltage over entire range. Wattmeter reads to 300 watts. The Model 155 Traceometer affords complete voltage stabilization of all circuits against line fluctuation.

MEASURE AND TRACE THE SIGNAL THROUGH EACH STAGE WITH FIVE PRECISION METERS

The RF-IF section covers 100 to 1800 KC. Ranges are: 0-5,000-25,000-100,000 microvolts and 0-5-25-15-25 volts. Oscillator section covers 600 to 1700 KC, 1.7-5-15 MC. Voltage ranges are: 0-3-1.5-7.5-30.0 and 150 volts. The DC voltmeter section ranges are: 0-2.5-5-25-50-250 and 500 volts with a zero-center. Input impedance is 18 megohms. The AF section covers 0-1-1.5-10-50-100 and 500 volts at an input impedance of 2 megohms. The RF-IF, Oscillator and AF sections have jacks for oscilloscope or phone monitoring. A 5-ampere fuse on front panel protects entire instrument, including the wattmeter. Has built-in speaker. With 4 special low-capacity shielded leads. Size: $13\frac{1}{2} \times 16 \times 10\frac{1}{2}$ ". Shpg. wt., 50 lbs. For 115 V., 60 cycles AC.

B16045. CASH PRICE.....\$120.54

Time Payments: \$12.05 down, \$14.91 monthly for 8 months.

19X CRYSTAL-CONTROLLED MICROVOLT GENERATOR



The Model 19X provides a calibrated RF output from .5 to 100,000 microvolts. Built-in crystal oscillator. Self-contained vacuum tube voltmeter. 400 cycle, 1 volt output available. The RF oscillator is calibrated directly from 100 KC to 120 MC. RF unmodulated or with 35%, 400 cycle modulation. Meter also calibrated in decibels with 3 ranges from -10 to +38 DB. With cables and instructions. $13\frac{1}{2} \times 16 \times 7\frac{1}{2}$ ". Wt., 21 lbs. 115 V., 60 cycles.

B15853. CASH PRICE.....\$85.26

\$8.52 down, \$10.55 monthly for 8 months.

177 SIGNAL GENERATOR

RF ranges cover from 100 KC to 110 MC. Outputs are 400 cycle modulated, pure RF, and frequency modulated. Latter is for aligning FM sets. Write for B15864, free descriptive literature. For 115 V., 40-65 cycles. Shpg. wt., 26 lbs.

B15854. CASH PRICE.....\$47.63

\$4.76 down, \$5.89 monthly for 8 months.

B15855. Model 188. Similar to 177 but with built-in power level meter. \$57.04 CASH PRICE.....\$57.04

\$5.70 down, \$7.05 monthly for 8 months.

OTHER HICKOK INSTRUMENTS

We can supply all HICKOK INSTRUMENTS. Complete HICKOK literature B15864 and time payment blanks mailed on request. Send deposit and references with order on time payment purchases.

B15865. Model 133. Radio set and portable dry battery tester. V.O.M. with 25,000 ohms per volt DC. Wt., 9 lbs. CASH \$44.10

\$4.41 down, \$5.46 monthly for 8 months.

B16046. Model 110. AC-DC Vacuum Tube Voltmeter. Extremely sensitive. Size: $11\frac{1}{2} \times 13 \times 7\frac{1}{2}$ ". Shpg. wt., 21 lbs.

CASH.....\$52.92

\$5.29 down, \$6.55 monthly for 8 months.

B15856. Model RFO-5. A new, complete Cathode-Ray Oscilloscope using a 3" tube. Size: $11\frac{1}{2} \times 13 \times 15\frac{1}{4}$ ". Shpg. wt., 50 lbs.

CASH.....\$95.26

\$9.52 down, \$11.78 monthly for 8 months.

B15857. Model 177X. Similar to the Model 177 described at left but with crystal control. Accurate within $\pm .01\%$. Size: $13\frac{1}{2} \times 13 \times 7\frac{1}{2}$ ". Wt., 26 lbs. CASH.....\$56.45

\$5.65 down, \$6.98 monthly for 8 months.

B15858. Model 188X. Similar to the Model 188. With crystal control. Accurate within $\pm .01\%$. Wt., 26 lbs. CASH.....\$65.86

\$6.58 down, \$8.15 monthly for 8 months.

B15859. Model 210X. Jumbo, zero current, volt-ohm-milliammeter. $13\frac{1}{2} \times 16 \times 6\frac{1}{2}$ ". Wt., 35 lbs. CASH.....\$61.74

\$6.17 down, \$7.64 monthly for 8 months.

B15860. Model 4955S. Accurate V. O. M. Size: $7 \times 4\frac{1}{2} \times 3\frac{1}{2}$ ". Wt., 5 lbs. NET.....\$27.05

4922 "JUMBO" VOLT-OHM-MILLIAMMETER

This V.O.M. features an extra large dial for super speed. Actual size of meter is $9\frac{1}{4} \times 8\frac{1}{4}$ ". Dial scale length is $8\frac{3}{4}$ ". Easily read at any angle and at a considerable distance. Sensitivity of instrument is 1,000 ohms per volt. Ranges are: 0-10-50-250-500-2,500 V. A.C. and D.C.; 0-500 microamperes D.C.; 0-1-5-50-500 MA. DC; ohmmeter ranges, 0-30-10-1,000 ohms; 0-1-10 megohms, .05 ohms easily read on low range; -10 to +15 DB. A blocking condenser permits using the AC voltage ranges as an output meter. The DC current range may be increased 0-5-50 amperes by using B15863 shunt listed below. Extreme accuracy is assured through the use of bridge adjusted wire-wound resistors. A new type of reifier circuit is employed which will withstand heavy overloads. Instrument is housed in a steel case finished in blue crackle. Panel is etched aluminum. Overall size of case is $13\frac{1}{2}$ " high, $10\frac{1}{4}$ " wide, and 7" deep. With test leads and battery. Wt., 17 lbs.

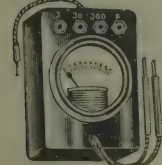
B15862. CASH PRICE.....\$37.63

\$3.76 down, \$4.65 monthly for 8 months.

B15863. Shunt. Increases range of 4922 0-5-50 amps. D.C. Shpg. wt., 2 lbs. \$5.59 NET.....\$5.59



POPULAR LOW-COST POCKET TEST INSTRUMENTS



"271" SIMPLEX VOLT-OHMMETER

An exceptionally compact, pocket-size test unit that finds ready use either for shop or portable work. Scale is marked 0-3, 0-30, 0-300 volts, D.C., and 0-10,000 ohms. Attractive walnut-finished bakelite case with metal back measures $1\frac{1}{2} \times 2\frac{1}{8} \times 3\frac{3}{8}$ ". Meter has the magnetic vane type having a two-inch dial. Has pin jacks for quick selection of desired scale. Self-contained batteries included. Supplied with 30-inch polarized test-leads and instructions. Shpg. wt., 1 lb.

B10151. CASH PRICE.....\$2.91

YOUR PRICE.....\$2.91



"272" PRECISION VOLT-OHMMETER

An accurate instrument in compact form. Designed with sufficient ranges to cover practically all of the test requirements of service work. The meter is of the D'Arsonval moving coil type with a 2-inch dial. Voltage ranges have a sensitivity of 1,000 ohms per volt with an accuracy of $\pm 2\%$. Ranges selected by means of small plug and jacks. Ranges are: 0-5-50-500-1,000 V. DC, 0-500,000 ohms. Black bakelite case, $1\frac{1}{2} \times 2\frac{1}{8} \times 3\frac{3}{8}$ ". 30" test leads. With self-contained batteries. Wt., 1 lb.

B10156. NET.....\$5.79

"363" UNIVERSAL AC-DC V.O.M.

A sensitive high grade moving vane type meter is used with a 2" dial. Ranges are: 0-15-150-450 V. AC or DC; 0-15 MA. AC and DC, and 0-20,000-100,000 ohms. Provision has also been made to measure capacity of condensers from .01 to 20 mfd. Separate rheostat for ohmmeter zero adjustment. Has built-in power supply. No batteries required. Black bakelite case with removable metal back measures $1\frac{1}{2} \times 2\frac{1}{8} \times 3\frac{3}{8}$ ". With 30" test leads and instructions. For 115 V. AC or DC.

B10154. NET.....\$6.31



AUTO IGNITION ANALYZER

Checks cam angle, batteries, coils, condensers, lamps, etc. A neon bulb is included for checking leakage in the ignition system. Size, $2\frac{1}{4} \times 3\frac{3}{4} \times 2\frac{1}{2}$ ". Wt., 1 lb.

B10150. CASH PRICE.....\$6.91

NET.....\$6.91



MIDGET PYROMETER

Ranges: 0-700-2,000 degrees F. A jack and plug changes range. Millivoltmeter has 2" scale. 2% accuracy. Meter has compensated for room temperature. A welded iron constantan thermocouple extends approx.

12" from case. $1\frac{1}{4} \times 2\frac{1}{4} \times 3\frac{1}{4}$ ". Shpg. wt., 1 lb. \$5.70

B10155. NET.....\$5.70

"10-N-300" VOLT-OHMMETER

Ranges are: 0-300 V. DC, and 0-10,000 ohms. Magnetic vane type meter with 2" dial. Ranges selected by means of jacks and a plug. Size: $2\frac{1}{4} \times 2\frac{1}{4} \times 1\frac{1}{2}$ ". Uses 2 self-contained dry cells. With 24" leads, and batteries. Wt., 1 lb.

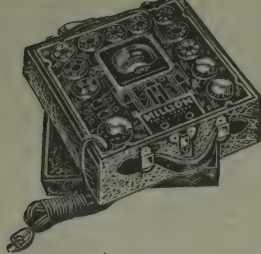
B10152. NET.....\$2.26



Modern

TEST EQUIPMENT

NEW MILLION TEST EQUIPMENT



MODEL DF TUBE AND CONDENSER TESTER

The Model DF tests all tubes including the latest Localt, "S," Bantam Jr., and "hearing-aid" peanut types. The filament switch covers from 1.4 to 110 volts with spare positions for future tubes. The exact condition of the tube under test is clearly indicated on the English-reading "Good-Bad" scale of the accurate D'Arsenal meter. A sensitive neon bulb is used for checking shorts and leakages up to 2 megohms. Complete instructions supplied for testing bypass and electrolytic condensers for shorts and leakage. Also provides for continuity checks. A separate switch is used for line voltage adjustments. The Model DF is built to precision standards. The attractive case with removable cover measures 9" x 9" x 5". Has carrying handle and an 8-foot cord and plug. For 105-125 V. 60 cycles. Shpg. wt., 12 lbs.

B10012. NET. \$16.95

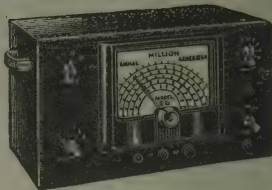


MODEL GM MULTIMETER

Designed to provide the Serviceman a large accurate meter for shop use. Alnico meter movement in giant 8 1/2" meter provides life-long ruggedness and accuracy. Ranges are: 0-6-120-300-1,200-3,000 V. AC and DC, at 1,000 ohms per volt, 0-500-500,000 ohms, 0-5 megohms, 0-1-3-30-300-600 MA, and 0-12 Amperes DC. Decibel scale, -10 to +10. Double zero adjust makes it unnecessary to reset when changing from low ohm scale to high. Size, 9" wide, 13" high. Shpg. wt., 12 lbs. Less leads and batteries.

B10011. NET. \$19.95
B10006. Burgess Battery Kit for above. NET. \$1.48

We can supply all Million test instruments. Write for free catalog B10007. Convenient time payment terms for purchases of Million equipment totalling over \$35.00.



MODEL SG SIX BAND AC SIGNAL GENERATOR

A precisely engineered device capable of producing a signal that can be varied in amplitude from a few microvolts up to approximately 1 volt. Individual coils are used for greater accuracy and flexibility. Separate coils are individually air-trimmed, eliminating the possibility of dead spots on any range. A precision feature. Attenuator does not cause frequency change, reduces output signal to zero on all bands. Provision is made to use external modulation, internal modulation of 400 cycles at 40%, or pure unmodulated RF. The Model SG has six bands covering from 75 KC to 30 MC on fundamentals and to 90 MC on harmonics. Separate 400 cycle audio output available through the regular attenuator and multiplier for testing audio amplifiers. Attenuator is purely resistive with multiplier calibrated approximately in microvolts. RF oscillator uses a 6V6 tube, 6J5 AF oscillator, and 5W4 rectifier. Heavy metal case, 16 1/2" x 9 1/2" x 8 3/4". Complete with tubes and instructions. For 115 V., 50-60 cycles. Shpg. wt., 20 lbs.

B10017. NET. \$34.95

MODEL A MULTIMETER



The Model A is a compact volt-ohm-milliammeter having a voltage sensitivity of 1,000 ohms per volt. Complete scales for AC and DC, ohms, milliamperes, and decibels. Meets the needs of the serviceman for a complete pocket tester of sturdy construction. High degree of accuracy. Self-contained battery. Ranges: 0-6-120-300-1,200-3,000 V. DC, 0-6-300-3,000 V. AC, 0-1-3-300 MA, DC; 0-2,000-500,000 ohms; -10 to +12 decibels. Zero ohmmeter adjuster same for both ohmmeter scales. Single rotary switch selects all ranges except 3,000 V. AC and DC. Metal case with art panel. Size, 2" x 3 1/4" x 6". With battery. Wt., 5 lbs.

B10015. NET. \$8.45

B10016. As above, but in portable case with hinged cover, 4" x 6" x 3". NET. \$9.95

OD SIGNAL GENERATOR



Covers 100 KC to 25 MC in 6 bands. The direct-reading dial has a scale over 40" in length. Individually trimmed coils assure accuracy and eliminate dead spots. RF output can be modulated 400 cycles. Has a separate audio output, variable from 0 to 1 volt. Dual attenuator. Size, 10" x 7" x 6". Has bronze panel with ivory knobs. For 110 volts AC or DC. Wt., 10 lbs.

B10014. NET. \$19.95

XM VACUUM TUBE VOLTMETER

A scientifically designed, laboratory-type Vacuum Tube Voltmeter with portable multi-meter convenience. It is the only instrument of its kind that will read up to 3,000 volts with push-button selection for the 9 scales. The input capacity, using the tube on the end of the cable, is approximately 5 mmf. Measures values of DC, RF or AF potential without disturbing circuit under test. Input impedance never less than 12 million ohms. Nine push-buttons select: 0-3-15-30-150-300-600-900-1,500 and 3,000 volts, AC or DC. Tenth button is for zero adjustment. Coaxial cable transfers voltage to divider. 11" x 12 1/2" x 6". Walnut case. For 115 V. 60 cycles. Wt., 12 lbs.

B10013. NET. \$28.95

DUMONT OSCILLOGRAPHS

MODEL 164-3"



This Dumont 3" oscillograph meets every requirement for a general purpose instrument. Separate vertical and horizontal amplifiers are used. Two power supplies prevent interaction of controls. Connection may be made directly to deflecting plates. All controls are brought out to the front panel including centering controls. Removable calibrated scale supplied. Size, 11 1/2" x 7 1/2" x 13". For 110-120 V. 60 cycles. Complete with all tubes. Wt., 25 lbs.

B10390. NET. \$53.41

MODEL 168-5"

The Type 168 5-inch oscillograph has a two-stage vertical amplifier. Single stage horizontal amplifier. Connection may be made to vertical plates direct or through one or two stages. Large 5" screen and removable calibrated scale allow accurate quantitative measurements. Two independent power supplies. Sweep circuit range from 15 to 30,000 cycles per second. Size, 15 1/4" x 8" x 14". For 115 V. AC. With tubes. Wt., 40 lbs. **\$114.17**

B10391. NET. \$149.45

B10392. Model 208 Oscillograph. Uses Intensifier type CR tube. NET. \$149.45

B10393. Type 185 Electronic Switch. Square wave generator included. \$63.21

Write for descriptive data. Please mention instruments of particular interest to you.

WESTON TEST INSTRUMENTS

MODEL 772-2 SUPERSENSITIVE ANALYZER

Has 4 1/4" multi-scale meter with 100 division scale and knife-edge pointer. High-sensitivity for television circuits. Ranges: 0-2.5-10-50-250-1000 volts DC at 20,000 ohms per volt, and AC at 1000 ohms per volt; 0-100 micro-amperes DC; 0-1-10-50-250 DC MA; 0-1-10 Amps. DC; 0-3000-30,000 ohms; 0-3-30 meg.; -14 to +34 DB. In natural wood finish carrying case, 15x5x8 3/4". With battery and test leads. Illustration shows Model 666-B Selector. (Not supplied). See B10363 below. Wt., 12 lbs.

B10350. CASH PRICE. \$49.50

MODEL 787 ULTRA HF OSCILLATOR

The new Weston Ultra High Frequency Oscillator has been designed to test and check all types of equipment operating in the high frequency bands. Fundamental frequency coverage from 22 to 150 MC. Makes alignment and operation tests of aircraft, police, television, FM, and military short wave equipment. Radiation from rod, 1 V. Powered by self-contained batteries. Provision incorporated for modulating output with a 400 cycle note at 30%. External modulation may also be used. Size, 8" x 8" x 11". Complete with batteries and tubes. Supplied with full instructions and charts. Shpg. wt., 21 lbs.

B10375. NET. \$93.75

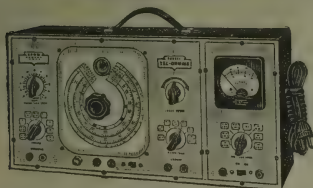
ADDITIONAL WESTON TEST INSTRUMENTS

All Weston units priced over \$35.00 are available on convenient time payments. Write for application blanks. Descriptive literature B10349 will be sent promptly upon request.

No.	Model	NET	No.	Model	NET
B10367	766 Televerter	\$18.75	B10370	687 O.P. Meter	\$15.60
B10371	767 Filatrol	4.95	B10359	689-IE Ohmmeter	13.50
B10365	777-1 Tube Checker	49.50	B10372	689-IF Ohmmeter	15.00
B10366	777-2 Tube Checker	54.75	B10373	695-3B DB Meter	32.63
B10364	776 Oscillator	65.25	B10362	695-11 DB Meter	28.50
B10368	778 Checkmaster	69.75	B10358	697 V.O.M.	24.00
B10369	778 Servisat	97.50	B10353	564 V.O. Meter	28.80
B10361	780 Cap. Meter	24.00	B10374	571 O.P. Meter	24.00
B10363	666-B Selector	15.83	B10376	791-Batt. Tester	15.00
B10357	669 V.T.V.M.	49.50			

SERVICE Instruments

NEW SPRAGUE DELUXE TEL-OHMIKE



An up-to-the-minute, obsolescence-proof condenser and resistor analyzer that sets a new vogue in test equipment design. A high-quality test instrument, it has many outstanding features generally not found in instruments of this type. The Tel-Ohmike measures capacity on direct-reading scales from .00001 mfd. to 2,000 mfd.; covers range from the minimum capacity of trimmer condensers to the capacity of the largest motor-starting condensers. The characteristics of all air, mica, paper, oil, wet and dry electrolytic condensers are easily and quickly measured. Direct-reading scales permit resistance measurements up to 5 megohms. Leakage resistance, an important factor of condensers, can accurately be determined up to 10,000 megohms. This is one of the highest insulation resistance scales available on any condenser analyzer. A magic eye is used to show bridge balance. DC volt-milliammeter provided with switch and pin jacks so it may be used for measurements external to Tel-Ohmike. 3 position switch selects: 0-15-150-500-1,500 V. DC, 0-1.5-15-50 ma. DC. For operation from 115 V., 60 cycles. Size, $17\frac{1}{2} \times 9 \times 6$ ". Shpg. wt., 16 lbs.

CASH PRICE \$39.95
\$4.00 down, \$4.95 monthly for 8 months.

STANDARD TEL-OHMIKE

Instead of paying for meters that you already possess, you buy only the basic instrument and use your own voltmeter and milliammeter. The standard Tel-Ohmike is exactly like the unit illustrated above, but is supplied less the meter. Direct reading scale indicates power factor values up to 50%. Opens, shorts, and intermittent conditions on condensers and resistors are easily determined. Instruction manual included. Metal case, $13\frac{1}{2} \times 8\frac{3}{4} \times 6\frac{1}{4}$ ". For operation from 115 V., 60 cycles. Shpg. wt., 16 lbs.

B10190. NET. \$29.70

AEROVOX INSTRUMENTS

MODEL 95 LC CHECKER

Tests condensers and inductances under actual operating conditions. Paralleled capacitors may be checked individually. Open, shorted, or intermittent capacitors are easily spotted. The 6-band built-in oscillator covers from 60 KC to 26 MC. Permits checking and aligning RF, oscillator and IF circuits. A type 6E5 tube is used as an indicator. The sturdy steel case with crackle finish measures $10\frac{1}{2} \times 7\frac{1}{2} \times 5\frac{1}{2}$ ". Complete with four tubes and accessories. For 115 volt AC or DC. 6 lbs.

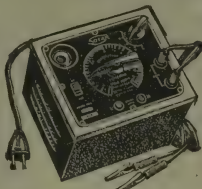
B10172. NET. \$28.91

CAPACITY AND RESISTANCE BRIDGE

Checks capacity of condensers at their rated voltages. Six ranges from 100 mmf. to 100 mf. are provided. Measures values from zero up to 1 megohm. Insulation resistance of condensers, wires, etc., can be measured up to 10,000 megohms. Includes a vacuum-tube voltmeter. Other meter ranges are: 0-60-300-600 volts DC at 1,000 ohms per volt; 0-6-60 ma. DC and 0-60 millivolts. Variable power supply from 15 to 600 volts. DC. Size: $10\frac{1}{2} \times 7\frac{1}{2} \times 8$ ".

For 115 V., 60 cycles. Shpg. wt. 13 lbs.
B10173. NET. \$35.03
\$3.50 down, \$4.33 monthly for 8 months.

NEW SOLAR CONDENSER "QUICK-CHECKS"



MODEL BQC

A new instrument for instantly checking the quality of a condenser while it is in the circuit. Accuracy is not upset even if the condenser which is being checked is shunted by an inductance. Model BQC measures electrolytic, paper, mica, and air condensers from .00001 to 70 mfd. Indicates power factor. Instantly detects defective capacitors, including shorts, opens, intermittents, high and low capacity units, and high power factor units. Can be used as a continuity meter for checking receiver and amplifier circuits. Bridge is furnished complete, ready to operate, in an attractive metal case. Complete with test leads and tubes. Case measures $5\frac{1}{2} \times 6 \times 4\frac{1}{2}$ ". For 115 V., 60 cycle operation. Shpg. wt., 8 lbs.

E10185. Model BQC-1-60. \$15.43

NET. \$15.43

For 110-220 Volts, 50-60 cycles operation add \$3.65 to above prices.

MODEL QC

An effective instrument for instantly spotting good and bad condensers under dynamic conditions. Extremely simple to operate. Designed for qualitative checking only. Similar to Model BQC, described at left, but without the capacity bridge. Consists of a complex balanced radio frequency oscillator, a visual indicator in the form of an electron eye tube and a source of power. With condenser in or out of the operating circuit, partially connected, or shunted by other components, the Model QC determines: good condenser, open, short, intermittent and RF impedance. Self-contained power supply uses 25Z6GT rectifier. Compact sturdy metal case, $5\frac{1}{2} \times 6 \times 4\frac{1}{2}$ ". Furnished complete with tubes and test leads. For 115 V., 60 cycle operation. Shpg. wt., 7 lbs.

E10189. Model QC-1-60. \$11.60

NET. \$11.60

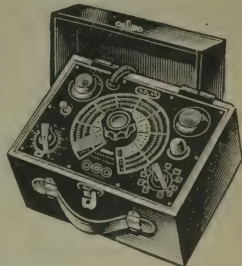
SOLAR CAPACITY ANALYZER

One of the most popular instruments for quickly and accurately determining the capacity of any electrolytic, paper, mica, and air condenser between .00001 and 70 mfd. A 6E5 tube is used as a bridge-balance indicator; capacity of condenser under test is shown directly on accurately calibrated color-coded scale. Extended Wien bridge circuit used for capacity measurements. Also measures power factor of any standard electrolytic condenser, directly on a scale, in percentage, and detects defective condensers. Two large resistance scales give readings up to 2 megohms, for checking insulation resistance, or for measuring resistors. Tests are made at voltages up to 450 V. DC provided by built-in power supply. Checks all types of condensers for leakage, shorts, intermittents, and wrong capacity. No headphones, meters, etc., are required; compactly built in sturdy, attractive cabinet with handle for carrying. Measures $9\frac{1}{2} \times 7\frac{1}{2} \times 6\frac{1}{4}$ ". Requires 1-IV and 1-6E5 (not supplied). An efficiently engineered instrument. Shpg. wt., 9 lbs.

B10186. Model CB-1-60. For 110 V., 60 cycle. \$18.82

NET. \$18.82

B10187. Model CB-2-U. For 110-220 V., 25-60 cycle. NET. \$23.52



CORNELL-DUBILIER CAPACITOR ANALYZERS

MODEL BF-50

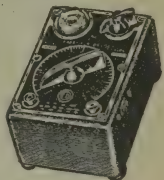
This instrument quickly and accurately measures important characteristics of all types of capacitors. Range from .00001 to 240 mfd. Will determine the exact condition of all paper, mica, and electrolytic condensers, including AC motor starting capacitors. Bridge, assuring permanent accuracy of capacity and power factor. For 110-120 V., 50-60 cycles. With test leads. Less tubes (12A7 and 6E5). Size: $6\frac{1}{2} \times 12 \times 9\frac{3}{4}$ ". Shpg. wt., 10 lbs.

B10175. NET. \$24.40

MODEL BN BRIDGE

An ultra-compact condenser bridge for Servicemen and Technicians. Quickly and accurately measures capacity of paper, mica, electrolytic, and air condensers from .00001 mfd. to 50 mfd. This instrument indicates by means of a visual eye tube the power factor of electrolytic condensers. Also has many other uses such as continuity meter or check test on defective condensers for opens, shorts, high, low power factor, etc. Walnut bakelite case. Size $3\frac{1}{2} \times 5 \times 3$ ". Less tubes (12A7 and 6AF6G). For 110-120 V., 60 cycles. With leads. Shpg. wt., 3 lbs.

B10176. NET. \$9.70



ACCURATE CAPACITOR DECADES

Provide accurate standards over a wide range of capacity. Ideal for Servicemen, Lab Technicians, Schools, etc. Have 600 V. DC rating. May be used individually or in groups of two or three decades, giving maximum flexibility. They all incorporate high-quality capacitor standards. Each decade is furnished with an accurate calibration chart giving exact capacity values for all scale markings, extending use to more precise measurements.

MODEL CDB-5

Range from .01 mfd. to 1.1 mfd. in steps of .01 mfd. on 2 scales. For use to 600 V. DC. Case, $1\frac{1}{4} \times 5 \times 2\frac{1}{2}$ ". Shpg. wt., 3 lbs.

B10161. NET. \$5.29

MODEL CDA-5

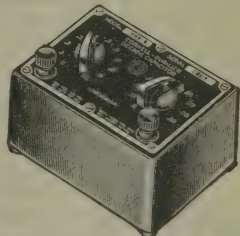
Direct reading on 2 scales from .0001 mfd. to .011 mfd. in steps of .0001 mfd. Mica condensers. $3\frac{3}{4} \times 5 \times 2\frac{1}{2}$ ". Shpg. wt., 3 lbs.

B10160. NET. \$5.29

MODEL CDC-5

Has direct-reading scale calibrated from 1 mfd. to 10 mfd. in steps of 1 mfd. Uses oil-paper condensers rated at 600 V. DC maximum. $3\frac{3}{4} \times 5 \times 2\frac{1}{2}$ ". Wt., 5 lbs.

B10162. NET PRICE. \$9.40

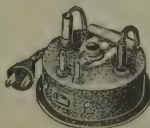


PORTABLE BULB AND CONTINUITY TESTER

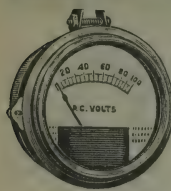
Here is an inexpensive all-purpose portable tester of unique application. Tests any standard electric bulb, photo flash or photo flood lamps, Christmas tree bulbs, plug and cartridge fuses, automobile and flashlight bulbs, etc. Simple to operate. Continuity test with bulb indicator allows testing any electrical appliance. Operates on 115 V. AC or DC. Complete with test leads. Shpg. wt., 2 lbs.

B10180. NET. \$4.75

For 220 Volts AC or DC operation add \$1.25.



READRITE METERS SHUNTS • RECTIFIERS



Standard Type



Zero Adjustment

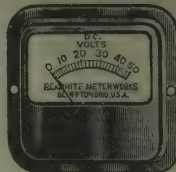
READRITE PANEL METERS

MODEL 55 D.C.

The popular and economical Readrite line used extensively in radio and electrical work where an efficient low-priced meter is required. Accuracy assured within 5%. D.C. meters are polarized vane, solenoid type. Require 2 1/2" mounting hole. Have easy-reading white dial, black lettering and fine nickel-finish metal shell. Clamp included to hold meter tight against panel. Screw connections with binding nuts on rear. 2 1/4" diameter. For outside flange mounting use No. 65A Flange ring below.

MODEL 95

Here is a new addition to the famous line of Readrite meters. Model 95 is modernistic and up-to-date. The beautiful black lacquer-finished square cases measure 2 3/4" x 2 3/4". Wrinkle, nickel, and chrome finishes are also available on special order. Meters require a 2 1/2" hole for mounting. Ideal modern low cost meters with dependable accuracy.



Without Zero Adjustment

D.C. VOLTMETERS

Volts	Resist. Ohms	MODEL 55		MODEL 95	
		Without Zero Adjustment	With Zero Adjustment	Without Zero Adjustment	With Zero Adjustment
No.	NET Each	No.	NET Each	No.	NET Each
0-1	18	B7350		B7250	
0-3	135	B7351		B7251	
3-0-3	250	B7352	59c	B7252	79c
0-5	310	B7353		B7253	
0-6	550	B7354		B7254	
0-8	550	B7355	59c	B7255	79c
0-10	1475	B7356		B7256	
0-15	2700	B7357	73c	B7257	94c
0-25	1625	B7358	59c	B7258	79c
0-25	7720	B7359	\$1.62	B7259	\$1.82
0-50	3250	B7360	.73	B7260	.94
0-50	15440	B7361	1.91	B7261	2.12
0-100	6500	B7362	.88	B7262	1.09
0-100	30888	B7363	1.91	B7263	2.12
0-150	9750	B7364	1.03	B7264	1.23
0-150	46320	B7365	1.91	B7265	2.12
0-300	92640	B7366	1.91	B7266	2.12
0-500	154400	B7367	2.65	B7267	2.85
0-750	231600	B7368	3.23	B7268	3.44
0-8-160	16200	B7369	1.32	B7269	1.53
0-60-300	92640	B7370	2.65	B7270	2.85
0-15-60	180000	B7371	3.23	B7271	3.44
-300-600					

D.C. AMMETERS

Amps.	Type	MODEL 55		MODEL 95	
		NET Each	NET Each	NET Each	NET Each
0-1	380	B7428		B7275	
0-3	336	B7429		B7276	
0-5	381	B7430	59c	B7277	79c
0-10	338	B7431		B7278	
0-25	382	B7427	\$0.88	B7279	\$1.09
0-50	383	B7426	1.32	B7280	1.53
1-0-1	101	B7432		B7281	
3-0-3	303	B7433		B7282	
6-0-6	606	B7434	59c	B7283	79c
10-0-10	110	B7435		B7284	
20-0-20	220	B7436		B7285	
0-30-30	338	B7448	\$1.18	B7447	\$1.38
50-0-50	550	B7461	1.32	B7460	1.53

RESISTANCE METER

MODEL 501



Direct reading: 0-10,000 ohms, 0-4 1/2 volts. Measures resistance and checks continuity in radio and electrical circuits. Requires 3 small flashlight cells. 10 oz.
B7341. NET.....88c

RESISTORS

No. 503 Resistor. 1150 ohms resistance to increase No. 501 ohmmeter reading to 60,000 ohms when used with 22 1/2 V. battery.
B7343. NET.....59c

No. 504 Resistor. 2,300 ohms, center-tapped, for use with 45 V. "B" to increase reading of No. 501 ohmmeter to 100,000 ohms.
B7344. With tip jacks. \$1.32



OUTPUT METER MODEL 575

Indicates output voltages for correct alignment of RF and IF stages. Ranges: 0-5, 0-50 volts. Has copper-oxide rectifier. In 4 1/2" black metal case, 4 lbs.
B7348. \$4.85

MODEL 500 OHMMETER

Similar to above in design and appearance. Readings are 0-10,000 ohms, 0-4 1/2 volts. Rheostat adjustment. With batteries.
B7347. NET.....\$3.28

CONTINENTAL CARBON TYPE A PRECISION RESISTORS



A new 1-watt type of carbon resistor, impregnated, and hermetically sealed in glass. For high resistance voltmeter multipliers and circuits requiring real stability. 1 1/2" x 1/4" dia.

SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms
100	*4450	10000	75000	400000
200	*4950	13500	85000	450000
400	5000	15000	90000	490000
500	5500	20000	100000	500000
1000	*5950	25000	150000	600000
*1450	*7450	30000	200000	750000
2000	8500	40000	240000	800000
*2950	*8950	50000	250000	900000
3500	*9950	60000	300000	1000000
4000				

*These units allow for the 50 ohms internal resistance of the milliammeter.

B8198. Accuracy within 2%. **EA.....29c**

B8199. Accuracy within 5%. **EA.....18c**

CONANT RECTIFIERS

Type B. Full-wave rectifier. Input 10 volts R.M.S., output 5 Ma. Size, 1/4" x 1/4" x 1/8".
B2509. NET.....\$2.06

TYPE "M"

Miniature full-wave rectifier for converting D.C. meters for A.C. use. Input 10 volts RMS; output 30 Ma.
B2503. NET.....\$2.06

D.C. MILLIAMMETERS


Ma.	Resist. Ohms	MODEL 55		MODEL 95	
		Less Zero Adj.	With Zero Adj.	Less Zero Adj.	With Zero Adj.
No.	NET Each	No.	NET Each	No.	NET Each
0-5	2160	B7400	\$1.32	B7414	\$1.47
0-10	700	B7401	1.18	B7415	1.32
0-15	295	B7402	.59	B7416	.73
0-25	85	B7403	.59	B7417	.73
0-50	22	B7404		B7418	
0-100	6.6	B7405		B7419	
0-150	4.4	B7406	59c	B7420	73c
0-200	2.6	B7407		B7421	
0-300	.8	B7408	\$0.59	B7422	\$0.73
0-400	.46	B7409	.59	B7423	.73
0-20-100	175-30	B7410	1.18	B7424	1.32
0-15-150	305-24	B7411	1.18	B7425	1.32
				B7299	\$0.79
				B7300	.79
				B7301	1.38
				B7302	1.38

A.C. VOLTMETERS*

MODEL 55			MODEL 95		
Volts	No.	Each	No.	Each	
0-4	B7450	\$1.62	B7306	\$1.82	
0-6	B7451	1.62	B7307	1.82	
0-10	B7452	1.62	B7308	1.82	
0-15	B7453	1.62	B7309	1.82	
0-150	B7454	2.65	B7310	2.85	
0-300	B7455	3.23	B7311	3.44	
0-600	B7456	3.82	B7312	4.03	
0-750	B7457	4.58	B7313	4.76	
0-10-140	B7458	2.65	B7314	2.85	

MODEL 55			MODEL 95		
Ma.	No.	Each	No.	Each	
0-25	B7462		B7324		
0-50	B7463		B7325		
0-100	B7464	\$1.62	B7326	\$1.82	
0-250	B7465		B7327		
0-500	B7466		B7328		

65A FLANGE
CONVERTERS



PLUG-IN LINE TYPE

0-150/B7459/\$2.65

A.C. AMMETERS*

MODEL 55			MODEL 95		
Amps.	No.	Each	No.	Each	
0-1	B7468		B7317		
0-3	B7469		B7318		
0-5	B7470	\$1.62	B7319	\$1.82	
0-10	B7471		B7320		
0-50	B7472	\$2.20	B7321	\$2.40	

INDUCTION AMMETER

Indicates automobile starter current. Reads 400 to 4-400 amp. D.C.

*Readrite A.C. meters are of the double-vane repulsion type.

KNIGHT METER SHUNTS



Individually calibrated to an accuracy of $\pm 1\%$ of 1%. Ideal for increasing the range of 0-mil meters. Wire is hard-drawn manganin. For meters having 50 ohm internal resistance.

No.	Ma.	No.	Ma.
B2369	5	B2373	100
B2370	10	B2374	250
B2371	25	B2375	500
B2372	50	NET EACH.....	49c

KNIGHT COMBINATION SHUNTS

No.	Milliamp.	No.	Milliamp.
B2377	10-50-100	NET EACH.....	\$1.29
B2378	50-100-250		
B2379	50-250-500		

COPPER-OXIDE RECTIFIERS

5 MA. CAPACITY

Miniature type. Converts D.C. meters drawing less than 5 Ma. to A.C. instruments. 3/16" square.
B2500. \$2.59

20 MA. CAPACITY

3/16" round, 3/4" long. Converts D.C. meters drawing not over 20 Ma. to A.C.
B2501. NET.....\$1.95

50 MA. CAPACITY

3/4" dia.; 1 1/2" long. Heavy-duty type for use where current does not exceed 50 Ma.
B2502. NET.....\$1.75

Quality METERS ▶ TRIPLETT • BEEDE ◀

TRIPLETT PRECISION METERS



321-221 D. C.
331-231 A. C.



227A-327A D. C.
237A-337A A. C.

son type, air-damped. D.C. meters have well-aged magnets of special construction. Zero adjusting screw is accessible from front of meters. A portable frame is available for Models 321 and 331. See description at bottom of column. In bakelite cases. Av. shpg. wt., 3 lbs. each.

METER DIMENSIONS

Model	Flange	Scale	Model	Flange	Scale
221	2 1/4"	12 3/4"	321	3 1/4"	2 3/4"
227A	2 3/4" x 2 1/4"	12 3/4"	327A	3 3/4"	2 3/4"
231	2 1/4"	13 3/4"	331	3 1/4"	2 3/4"
237A	2 3/4" x 2 1/4"	13 3/4"	337A	3 3/4"	2 3/4"

D.C. MILLIAMMETERS

Model	Model	EACH	M.A.	Model	Model	EACH
321	327A			221	227A	
B8650	B8664	\$4.57	0-1	B8736	B8786	\$3.75
B8651	B8665		0-1.5	B8737	B8787	
B8652	B8666	3.75	0-5	B8738	B8788	2.94
B8653	B8667		0-10	B8739	B8789	
B8654	B8668	3.75	0-15	B8740	B8790	2.94
B8655	B8669		0-25	B8741	B8791	
B8656	B8670	3.75	0-50	B8742	B8792	2.94
B8657	B8671		0-100	B8743	B8793	
B8661	B8672	3.75	0-150	B8744	B8794	2.94
B8658	B8673		0-200	B8745	B8795	
B8663	B8674	3.75	0-250	B8746	B8796	2.94
B8659	B8675		0-300	B8747	B8797	
B8660	B8676	3.75	0-500	B8748	B8798	2.94
B8662	B8677		0-750	B8749	B8799	

A.C. VOLTMETERS

Model	Model	EACH	Volts	Model	Model	EACH
331	337A			231	237A	
B8830	B8700	\$3.75	0-5	B8711	B8486	\$2.94
B8831	B8701		0-10	B8712	B8487	
B8832	B8702	3.75	0-15	B8713	B8488	2.94
B8833	B8703		0-25	B8714	B8489	
B8834	B8704	3.75	0-50	B8715	B8490	2.94
B8835	B8705		0-100	B8716	B8491	
B8836	B8706	5.39	0-150	B8717	B8492	3.75
B8837	B8707		0-300	B8718	B8493	
B8838	B8708	7.18	0-500	B8719	B8494	6.53
B8839	B8709		0-750	B8720	B8495	
B8840	B8710	10.46	0-1000	B8721	B8496	9.63

A.C. AMMETERS

Model	Model	EACH	Amps.	Model	Model	EACH
331	337A			231	237A	
B8866	B8763	\$3.75	0-1	B8771	B8821	\$2.94
B8867	B8764		0-2	B8772	B8822	
B8868	B8765	4.55	0-3	B8773	B8823	3.75
B8869	B8766		0-5	B8774	B8824	
B8870	B8767	5.88	0-10	B8775	B8825	5.07
B8871	B8768		0-25	B8776	B8826	
B8895	B8769	8.16	0-50	B8777	B8827	10.46
B8896	B8770		0-75	B8778	B8828	

D.C. VOLTMETERS

(125 Ohms Per Volt)				(1000 Ohms Per Volt)			
Model	Model	Volts	EACH	Model	Model	Volts	EACH
321	327A			221	227A		
B8761	B8450	0-5	\$3.75	B8722	B8678	0-5	\$5.39
B8691	B8451	0-10		B8723	B8679	0-10	
B8692	B8452	0-15	3.75	B8724	B8680	0-25	5.71
B8693	B8453	0-25		B8725	B8681	0-50	
B8694	B8454	0-50	3.75	B8726	B8682	0-100	5.71
B8695	B8455	0-100		B8727	B8683	0-150	
B8696	B8456	0-150	4.57	B8728	B8684	0-300	6.53
B8762	B8457	0-250		B8729	B8685	0-500	
B8697	B8458	0-300	6.04	B8730	B8686	0-750	7.18
B8698	B8459	0-500		B8731	B8687	0-1000	

D.C. AMMETERS

Model	Model	Amps.	EACH	Model	Model	Ma.	EACH
321	327A			331	337A		
B8752	B8872	0-1	\$3.75	B8805	B8812	0-10	\$4.41
B8753	B8873	0-5		B8806	B8813	0-15	
B8754	B8874	0-10	3.75	B8807	B8814	0-25	\$3.75
B8755	B8875	0-25		B8808	B8815	0-50	
B8759	B8876	20-0-20	3.75	B8809	B8816	0-100	\$3.75
B8760	B8877	30-0-30		B8810	B8817	0-250	
				B8811	B8818	0-500	

PORTABLE FRAME FOR TRIPLETT MODELS 321 AND 331

Attractive metal frame for mounting model 321 and 331 meters. Finished in baked-on black enamel. Completely drilled. Binding posts on top for connecting test leads. Overall height is 3 1/4", width, 4", depth at base, 3 1/4". Sloping front panel. Shpg. wt., 1 lb.

B9074. NET.

84¢

KNIGHT-"RADIO CITY" MA METER

High grade 1 ma. foundation meter of the D'Arsonval type. 1000 ohms per volt. In 3" square bakelite case. Has easy-to-read calibrations and scales. Scales are: 0-50-250-500-2500 volts DC; 0-10-100-500-1000 volts AC; 0-1-10-100-1000 ma. DC; 0-1-10 amps. DC; 0-500-100,000-1,000,000 ohms; -8 to +15, 12 to 35, 26 to 49, and 32 to 55 db. Complete with operating instructions and wiring diagrams. An easily-assembled high-quality unit at a very low price. Shpg. wt., 2 lbs.

B10163. NET.

\$2.94



PARTS KIT FOR DC RANGES

B10164. Aluminum panel—7 1/4" x 3 1/4", switch, 13 jacks, rheostat, 2 knobs, 12 resistors (6 wire wound), 3—1 1/2 volt batteries. With instructions and diagrams. Wt., 2 lbs. NET.

\$2.93

PARTS KIT FOR AC RANGES

B10165. Makes complete AC-DC meter when used with DC kit. Includes copper oxide rectifier, calibrated multiplier, etc. NET.

B10166. Meter Box for above. Size, 8 1/2 x 5 x 3 1/4". NET.

\$1.62

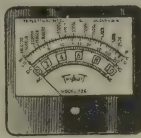
WESTON 301 DC MILLIAMMETERS



Weston meters have been famous for their fine workmanship and dependable performance since the beginning of radio. These are flush-mounting meters, housed in a 3 1/2" round bakelite case. The D'Arsonval movement (permanent magnet, moving coil type) is well damped, and accurate within 2%. Has zero adjustment. We can also supply all other Weston instruments. Shpg. wt., 2 lbs.

No.	Ma.	NET
B8850	0-1	\$7.35
B8851	0-1.5	7.35
B8852	0-10	6.61
B8853	0-25	6.61
B8854	0-100	\$6.61
B8855	0-200	
B8856	0-300	
B8857	0-500	

TRIPLETT 7" AC-DC FOUNDATION KIT



7" meter having 25,000 ohms-per-volt D.C. sensitivity. Effective scale length, 6". Dial scale reads: 0-10-250-1,000 volts at 25,000 ohms per volt; 0-50-250 microamperes; 0-1-10-50-250 milliamperes; 0 to 500 ohms, backup circuit; 20,000-200,000-2 meg. resistance scale; 0-10-50-250-1,000 A.C. volts at 1,000 ohms per volt. Black dial scale, markings in color.

B9110. TYPE 726. \$17.96

The types listed below have white dial scales. Readings as above.

B9112. 426, 4" square. \$10.95

B9113. 521, 5" round. \$11.44

ESSENTIAL PARTS KIT

Consists of all the parts necessary to build a complete Volt-Ohm-Milliammeter with the meters listed above. Also includes attractive black metal cabinet and test leads. 5 lbs.

B9115. NET. \$10.95

BEEDE 701 DC MILLIAMMETER



D'Arsonval-type, moving coil meters. Accuracy within 2%. Have zero adjustment and sapphire bearings. Flush mounting, 3 1/2" dia., in metal case. Wt., 2 lbs.

No.	Ma.	NET
B2300	0-1	\$3.53
B2301	0-10	2.79
B2302	0-100	2.79
B2303	0-200	2.79
B2305	0-500	2.79
B2304	1-0-1	3.53

VOLT-OHM-MILLIAMMETERS

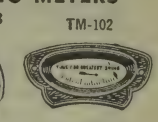
B2315. MODEL 701. Meter only. Reads 0-1 mils D.C., 0-50,000 ohms, 0-15-30-300 volts D.C. NET.

B2317. MODEL 701. Meter only. Reads 0-1 mils D.C., 0-2,000 ohms, 0-5-250-750 volts D.C. NET.

\$3.53

\$3.53

TUNING METERS



High resistance milliammeters for visual tuning of receivers having AVC. Type 121 (not illustrated) is shadow tuning type. All others have needle indicator. Wt., 2 lbs. Type 108 has square face. (Less escutcheon.) Wt., 1 lb.

NET EACH. \$8.84

Ma.	TM-103	TM-102
0-5	B7475	B7480
0-7	B7476	B7481
0-10	B7477	B7482
0-15	B7478	B7483
Ma.	TM-108	TM-121
0-5	B7485	B7490
0-7	B7486	B7491
0-10	B7487	B7492
0-15	B7488	B7493

ESCUTCHEONS

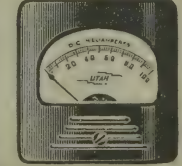
B7495. For TM-108, 121

B7496. For TM-102, 103

NET EACH. \$18.00

SPECIAL VALUE TRIPLETT-UTAH DC MILLIAMMETER KIT

A DC 2" Milliammeter Foundation Kit with genuine Triplett movement made for Utah. Ideal for metering amateur transmitters in 5 different circuits: 3-100 ma. circuits and 2 at 10 ma. Can easily be made into a combination Volt-Milliammeter test instrument. White-enamelled dial scale reads 0-10-100 ma. Use of two colors permits individual ranges to be easily read. Kit comes complete with 2-section, 5-position rotary switch and 5 shunt resistors. In attractively designed black Bakelite case. Shpg. wt., 2 lbs.



B8899. NET.

\$1.98

MODERNIZER ADAPTERS • TESTERS

AMPHENOL UNWIRED ADAPTERS

UNIVERSAL TYPE



A new type of adapter. The top consists of a standard bakelite socket. Any top and any bottom with B1715 or B4170 shell will make the adapter you need. The adapter shell is brass, finished in black. It is 1 1/2" long. Both the top socket and bottom plug may be easily snapped into shell adapter after wiring. Shpg. wt., 6 oz.

SOCKET (Top)

B4532.	4 Holes.....	EACH
B4533.	5 Holes.....	1
B4534.	6 Holes.....	6 1/2c
B4535.	7S.....	
B4538.	8 Octal.....	8c
B4625.	Loktal.....	10c
B4171.	For Hytron Bantam Jr.....	15c
B4070.	For RCA Miniatures.....	15c

PLUG (Bottom)

B1710.	4 Prong.....	EACH
B1711.	5 Prong.....	1
B1712.	6 Prong.....	6 1/2c
B1713.	7S.....	
B1714.	8 Octal.....	8c
B1715.	Adapter Shell.....	9c
B4170.	Same as above but with side hole for bringing out leads.....	12c

LOKTAI ADAPTER SETS



5 adapters for any loktai tube except 7E7 or 7F7. Used on any tube checker. Socket tops coded black, green, gray, blue and yellow. Unwired. Converts to octals. Wt., 1 lb.

B4071.	NET.....	\$1.47
B4617.	Same adapters as above completely wired for use. With instructions. 1 lb.	\$2.75
NET.....		

FOR SINGLE-ENDED TUBES

For testing single-ended tubes (control grid at base). Consists of 5 unwired adapters with instructions. Shpg. wt., 1 lb. **\$1.47**

B4073. NET.....

B4072. Same as above completely wired. With testing instructions. 1 lb. **\$2.75**

NET.....

SPECIAL LOKTAI ADAPTERS

Special adapters for 7E7 and 7F7 loktai tube base. Wired. With instructions. Wt., 4 oz.

B4618. For 7E7 tube. **\$59c.**

B4619. For 7F7 tube. **EACH.....**

BUD ANALYZER PLUG AND ADAPTERS

This molded bakelite analyzer plug with its small-base adapter kit makes it possible for you to bring your present analyzer up-to-date. Consists of: 8 prong plug; cable plug and socket; 9 wire cable; dual grid stud; and B1653-4-5-6-7 adapters below. 3 lbs.

B1659.	\$5.40
NET.....	
B1650.	Analyzer plug only. Small 8 prong octal base plug which plugs into adapters. Dual grid studs. \$1.03
NET.....	
B1651.	Analyzer plug, as described above, with 5 feet of 9 wire cable attached and an 8 prong panel plug. NET..... \$2.94

ADAPTERS ONLY

No.	Prongs	
B1653	8 to 4	
B1654	8 to 5	
B1655	8 to 6	
B1656	8 to 7M	
B1657	8 to 7S	
B1658	8 to Loktal. NET..... 73c	
B1660	8 to Bantam Jr. NET..... 58c	

MALLORY PANEL LIGHT



Excellent for lighting panel-type meters. Requires single 1/2" mounting hole. Uses min. screw base bulb. Wt., 5 oz.

B9133. NET..... 38c

COMPACT TYPE



Unwired adapter forms. Smaller than Universal type. Black bottoms have 3/4" hole for bringing out lead or metal stud. Tops available in black, red, green, blue, gray, or yellow. Specify color of tops when ordering these adapter forms.

Holes or Prongs	Socket Top	BOTTOM PLUG	
		Less Stud	With Stud
4	B1716	B1722	B1784
5	B1717	B1723	B1785
6	B1718	B1724	B1786
7S	B1719	B1725	B1787
7M	B1731	B1734†	B1789†
7 Comb	B1732		
8	B1720	B1726	B1788
8 Octal		B1735†	B1795†
Loktal	B1721		
*Min.	B1729		
NET		EACH	EACH
EACH.....	12c	12c	18c

*For RCA Miniature tubes.

†Fits only 7M and 7 comb. socket top.

MINIATURE TUBE ADAPTERS

B1736 and B1737 adapter kits will handle the RCA miniature series (1S4, 1T4, 1R5, and 1S5). For use with any tube checker equipped with an octal socket. B1738 has an octal plug bottom for testing all bantam junior tubes.

B1738. Kit of 3 wired adapters for RCA tubes. With wiring and testing instructions. **NET..... \$1.76**

B1737. Same as above, unwired. **NET. 88c**

B1738. Single adapter, unwired, for Hytron Bantams. **NET..... 29c**

UNIVERSAL ADAPTER KIT



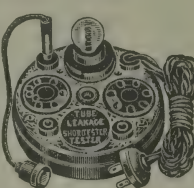
For making any adapter required for test purposes. Contains one each: 4, 5, 6, 7, and 8 octal prong wafer separators and 12 contacts. Select separator needed and insert contacts required, according to element of tube or circuit under test. Parts may be used over and over again. In leatherette case. 1 lb.

B1679. NET..... 44c

ALDEN TUBE LEAKAGE AND SHORT TESTER

For 4, 5, 6 and 7 prong tubes. Will indicate any leakage as high as 1 megohm. Operates from A.C. line. Has jacks for using as a continuity tester. With neon lamp, grid lead, cord and plug. Wt., 2 lbs.

B1675. NET PRICE \$2.06



ICA DELUXE METER CASES

Designed to harmonize with the trend of modern streamlined equipment. Finished in marine-gray rippled enamel trimmed with beautiful red striped chrome band. Has neat rounded top. Available for 2" or 3" meters. Ideal midjet speaker case for intercoms. Wt., 1 1/2 lbs.

No.	D. W. H. Meter-Hole	EACH
B5739.	4 1/4" x 4 3/8" x 4 1/2" 2 3/8"	
B5740.	4 1/4" x 4 3/8" x 4 1/2" 2 1/8"	88c

ECONOMY METER CABINETS

A metal cabinet designed conveniently to house any panel mounting 2" or 3" meter; ideal for housing meters for lab purposes. Finished in black ripple. Two ceramic feed-through insulators for external connections. Shpg. wt., 1 lb.

No.	D. W. H. Meter-Hole	EACH
B5681	4" x 4" x 4 1/4" 2 3/8"	
B5682	4" x 4" x 4 1/4" 2 1/8"	69c



EXTENSION SPEAKER AND HEADPHONE ADAPTER



For adding external PM or Magnetic speaker or headset to your radio. The wafer adapter slips under the power tube. External speaker or headset connects to screw terminals of the shock-proof Magic Coupler. Additional speaker or headset does not affect operation of radio. Simple to install. Shpg. wt., 1 lb.

B5770. For all 4 prong tubes. **EACH**

B5771. For all 6 prong tubes. **88c**

B5772. For all 8 prong tubes.

Note: For push-pull tubes use two adapters.

FOR MIKE & PHONO

For phono and "Home Broadcaster" mikes.

B5505. 5 Prong..... **NET EACH**

B5506. 6 Prong..... **54c**

B5508. 7 Prong.....

B5509. 8 Prong.....

RCA PHONO ADAPTER

For connecting record player to any radio set. Switch changes from radio to phonograph quickly and conveniently. Consists of switch, shielded cable, terminal board, knob, mounting screws, etc.

B5594. NET..... 59c



PHONO ADAPTERS & SWITCH

For radio sets without phonograph pickup connection. Enables you to connect any phonograph or pickup to set.

B8087. For sets using 5 prong tube (without grid cap on top) as detector or first audio such as 27, 32, 50, 76, etc.

B7595. For sets using a glass or metal type 6H6 as the second detector stage.

B8088. For sets using metal or metal-glass octal base first audio amplifier tubes such as the 6C5, 6J5, etc.

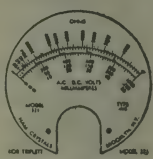
B8089. For screen grid cap tubes, such as the 24, 6J7, 6R7, 6Q7, 6F5, etc.

NET EACH..... 71c



METER DIAL SCALES

For converting 0-1 MA meters to multimeters. Upper scales are calibrated in ohms. H2C has additional backup ohms scale. All but H1C have lower scale: 0-50-250-1000 MA and DC volts (H1C is for AC or DC volts). H4C lower scale: 0-150-300-600 MA & volts DC.



Meter	Scale H1C	Scale H2C
Triplet 321	B8435	B8438
Weston 301	B8436	B8439
Jewell 88	B8437	B8440
Meter	Scale H3C	Scale H4C
Triplet 321	B8441	B8444
Weston 301	B8442	B8445
Jewell 88	B8443	B8446
NET		
EACH.....		19c

MANGANIN RESISTANCE WIRE

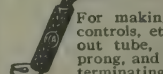
For winding shunts for all precision multiplier purposes. Temperature co-efficient 0.000025 ohms per degree C. Double silk-covered.

No.	Gauge	Ohms per Ft.	Ft.	E.A.
B2750	22	0.4531	10	
B2751	26	0.147	25	25c
B2752	30	2.9	30	

UNIVERSAL OUTPUT-METER ADAPTER


For making connections to meters, controls, etc., for test purposes. Pull out tube, slip adapter over proper prong, and replace the tube. 50' lead, terminating in a standard phone tip. Excellent for connecting output meter to plate when aligning sets.

B1678. NET..... 18c




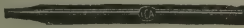
NEUTRALIZING TOOLS • TEST LEADS

ALIGNING AND NEUTRALIZING TOOLS



B5534. Flexible Shaft Tuning Wand. For checking alignment of radio sets without disturbing adjustment of the trimmers. Shaft is of flexible catgut. 4 oz. **NET...\$59c**

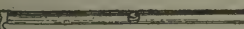
B5573. Solid Shaft Tuning Wand. With solid bakelite shaft. 4 oz. **NET...\$49c**


Non-Metallic Adjustable Neutralizing Tool. Made of bone fibre—no metal parts. Screwdriver at one end and hex socket at other. Fully shock-proof. 4 oz.
B5580. Extends 6" to 11". NET...\$34c
B5581. Extends 10" to 18". NET...\$49c



B5483. Non-Metallic Screwdriver. Made of 3/8" toughest bone fibre 6' long. 4 oz. **NET...\$25c**

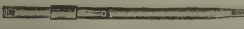
B5484. Double-Edged Screwdriver. Made of durable 1/2" bone fibre with blades at both ends. 7" long. 3 oz. **NET...\$21c**



Set Trimmers. For small-space coil and trimmer assemblies. Screwdriver has a dia. of 7/8". Other end is for 3/8" hex nut. 4 oz.
B5535. 6" Trimmer. NET...\$39c
B5536. 10" Trimmer. NET...\$49c
B5584. 5" Trimmer. Has same diameter as those above, but with metal hex nut which takes 1/4" trimmer nuts. **NET...\$28c**


B5683. Alignment Wrench. Has specially designed metal clip on one end. Particularly well adapted for neutralizing air trimmer condensers on all model sets. Made of fibre rod. Diameter is 3/4". Length, 6". 3 oz. **NET...\$24c**


Insulated Hex Wrench. Hex broaching runs entire length of wrench. End may be cut off when worn. Fibre rod. Fits 1/4" nut. 3 oz.
B5473. 5 1/2 INCH...\$12c | **B5474. 8 INCH...\$15c**


B6658. Low "C" Aligner. Made of tough bone fibre 3/2" in diameter. One end has screwdriver for adjusting trimmer and padding condensers; the other end has a recessed screwdriver for adjusting permeability tuned circuits. Developed especially for aligning push-button sets. Wt., 5 oz. **NET...\$29c**


POLYSTYRENE LO-LOSS NEUTRALIZER
B4555. The only alignment tool having no capacity effect on critical circuits. For adjusting FM, television, SW, and standard receivers. Molded from pure Amphenol "912-A." With pencil-type clip for pocket. **NET...\$24c**


FLEXIBLE ALLIGATOR TEST LEADS
B5583. For use wherever a short connection is necessary, such as on resistance bridges or capacity meters. With 2 1/2" alligator clips and phone tips; 4" flexible shaft. **NET PER PAIR...\$29c**


AMPHENOL CO-AXIAL CABLE TEST LEAD WIRE
Transmits RF currents with minimum loss. Ideal as test instrument lead. Used on latest type test equipment. Extremely flexible, bends on 1" radius. Made of 3/8" polystyrene leads strung on No. 22 stranded copper wire. Shielded. Lacquered cotton braid covering. Diameter is only 1/4".
B4556. Per Foot. NET...\$29c
B4557. 5 Foot Length. NET...\$1.32

ICA NEUTRALIZING & ALIGNING KITS


DE LUXE MODEL


A tool for every receiver. 14 parts cover multiple functions. These units telescope into each other forming 6 separate tools. In a handy leatherette case including: screwdriver with flexible shaft for hard-to-reach spots; "magic" alignment tool; alligator side wrench; 6" insulated screwdriver with metal nib; 3/8" and 1/4" nut wrench; 1/2" insulated square nut wrench; 1/4" hex metal side wrench; 2 1/2" insulated screwdriver with metal nib; 1/4" hex slotted insulated wrench screwdriver; 3/8" hex insulated nut wrench; 5" and 6" insulated screwdrivers. Supplied with leatherette case. 1 lb.
\$2.94


STANDARD MODEL KIT

Similar to the "De Luxe" set above but less the flexible screwdriver and "magic" aligning tool. With handy case. 8 oz.
B5532. NET...\$2.30

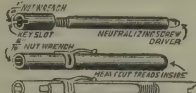
ICA ALL-PURPOSE TEST KIT


The handiest, most convenient test-kit available. Consists of a pair of test leads 60" long, one red and one black, of kinkless live rubber wire. One end has short insulated phone-tip type plugs. Other end has long insulated prod handles with banana-plug tips. Also supplied are an interchangeable pair of alligator clips, a pair of spade plugs and a pair of needle points to fit banana-plug tips on prod handles. All are color-coded and insulated. With leatherette case. Shpg. wt., 1 lb.
B5550. NET...\$1.32


5-IN-1 ALIGNMENT TOOL


A handy alignment tool kit that will serve innumerable uses. Consists of 1/4" and 3/8" nut wrenches, miniature blade screwdriver, and a full-size screwdriver with pocket clips.
B5527. YOUR PRICE...\$59c


4-IN-1 ALIGNMENT TOOL


Combines in one fountain pen size tool 4 Serviceman's necessities—1/4" and 3/8" nut wrenches, neutralizing screwdriver and key slot grip. Insulated handle with pocket clip. 6" long. 8 oz.
B5523. NET...\$28c
B5524. Crosley attachment. 4 oz.
B5525. Majestic attachment. EACH \$10c
B5526. Balancing Attachment. May be screwed into 4-in-1 above. 2 1/2" long. Ideal for close quarters. Offset 1/4" hex. socket; steel screwdriver. 5 oz.
NET...\$21c

SHORT TESTER



Has 2 1/2 volt lamp and battery for indicating an open or closed circuit. May also be used as trouble light, or with a neon lamp for testing voltages, frequencies, continuity, or determining AC or DC. Shockproof type handle. Wt., 10 oz.
B6662. NET...\$88c

SOLDERLESS TEST PRODS



Needle point test prod with insulated fenoline handle threaded to take the solderless plug chuck. 5 1/4" long; 3/8" dia. Wt., 8 oz.
B5623. Red
B5624. Black. EACH...\$14c

TEST LEADS AND KITS

HEAVY-DUTY LAB MODEL PRODS


All-purpose leads for test work. Flexible, rubber-covered kinkless wire fitted into heavy 3/4" handles, one red and one black. Handles, 5 1/2" long, have sharp point phone tips and will fit all standard jacks. Leads are 50" long. These popular high quality test prods are used by leading laboratory and service engineers who require the best test leads available. Choice of tips. Shpg. wt., 1 lb.
B5490. Phone Tips.
B5491. Spade Tips.
B5492. Alligator Terminals.
PER PAIR...\$42c


NEEDLE-POINT LEADS


High-quality test leads equipped with needle points for making good contact through insulation or pitch. 4" handles, 3/8" thick. 50" kinkless wire leads. 10 oz.
B5496. Phone Tips.
B5497. Spade Tips.
PER PAIR...\$29c
B5498. Alligator Terminals.
PER PAIR...\$34c

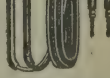
PENCIL TYPE PRODS


High-grade Weston type leads for all test equipment. 5" handles of insulating material, with flexible rubber wire. Sharp-pointed tip is threaded and screws into handle. Molded grips with phone tips have set screws for easy removal of wire. Length of leads and handles is 65". Properly soldered connections and good quality. 8 oz.
B5530. NET...\$71c
B6668. Phone-Tip Plugs. Plugs only as illustrated in circle above. One red, one black. Fenoline insulated. With nuts and bolts.
NET, PER PAIR...\$25c

ALL-PURPOSE TEST PROD KIT


For all test requirements. Made of sturdy Fenoline. Handles are 6" long and 1/4" diameter. Have 5 foot kinkless red and black wires. Prod end equipped with needle-point phone tips. Other end equipped with split banana plugs allowing for interchange of spade plugs, phone tips or alligator clips which are supplied. A complete test lead set offered at an attractive low price. 1 lb.
B6650. NET...\$73c
B6651. With Fixed End Phone Tips. As above, but less interchangeable feature. **NET...\$45c**
B6652. With Fixed End Alligator Clips. As above, but without the interchangeable feature. **NET...\$49c**

UNBREAKABLE TEST PRODS


Prods are nickel-plated brass, covered with red and black shockproof live rubber sleeves. Supplied with 50" kinkless rubber wire. 10 oz.
B6653. With Standard Phone Tips.
NET...\$36c
B6654. With Insulated Phone Tips.
NET...\$42c

ICA FUSED TEST LEAD SET


Protect your meters with fused test leads. Fuses easily inserted in prod handles. Can also be used less fuses. Supplied with interchangeable alligator clips, spade ends and insulated phone tips which fit on prod handles. 50" kinkless rubber-covered color-coded wire leads. With two fuses. Shpg. wt. 1 lb.
B5687. NET...\$1.47

INTERFERENCE ELIMINATORS • FILTERS



NOISE-ELIMINATING FILTERETTES

NOISE MANUAL

A helpful manual published by the Tobe Deutschmann Corp. Contains full information on man-made electrical noises and how to prevent them from reaching the radio set. Will pay for itself on your first service call.

B8449. NET.....29¢

MODEL 7 AC-DC POWER LINE FILTER

An easily installed Tobe capacity type line filter which will effectively eliminate line noises. Plugs into electric light socket or wall receptacle. Receiver plug fits into top of filter unit. Materially reduces disturbing radio interference from power lines. For 110 volt lines. Shpg. wt., 1 lb.

B8406. NET.....59¢

RAZOR FILTERETTE

A practical filter unit to reduce interference from electric razors. Enjoy early morning programs, time signals, etc., without the disturbing buzz of your razor. Just plug unit in wall receptacle and plug razor in other end. In black bakelite case only 1½" dia. by 2¾" long. Wt., 1 lb.

B8402. NET.....59¢

FILTERETTE JUNIOR

A simple yet thoroughly efficient filter unit for appliances such as vacuum cleaners, cash registers, drink mixers, hair dryers, dictating machines, sewing machines, etc. In bakelite case, 1½" dia. x 2¾" long. Convenient to attach. Wt., 1 lb.

B8403. NET.....73¢

MODEL RF-2

Designed to eliminate noises coming from the power line. Effective filtering is attained through combining capacity and inductance in one carefully engineered unit. For installation between set and power line. For use where voltage does not

exceed 130 V. Wt., 2 lbs.

B8405. NET.....\$2.79

MALLORY NOISE FILTERS

TYPE LC-10

Inductance-capacity filter for eliminating severe interference. Install as close as possible to noise source. Has binding post on case for grounding to frame of appliance or motor. Plugs into 110-220 volt power source. Has convenience outlet on top of case to accommodate plug of motor or appliance. Unit is housed in a shell case with mounting flanges. Easily installed on a wall or directly on the appliance. Overall size: 2½ x 3 x 3½". For any electrical apparatus drawing up to 10 amps. Wt., 5 lbs.

B11850. NET.....\$4.70

TYPE X5 FILTER

For use with vacuum cleaners, food mixers, etc. Use between the electrical appliance and the 110-220 volt power line. Has binding post for grounding to frame of appliance. Triple capacity filter. Blocks interference at the source. Handles up to 5 amps. Wt. 1 lb.

B11851. NET.....73¢

B11852. Noise Elimination Circular. FREE on request. Lists all M-V noise filters.

END RADIO NOISE!

Noise enters a radio set either from the aerial or from the power lines. To determine which, connect the aerial post of the set to the chassis or ground. If the noise stops, an all-wave antenna such as those listed on pages 132-133 should be installed. However, if the noise persists, a power line filter should be selected from the types listed below. Unless description states otherwise, most interference eliminators serve best when installed at source of interference rather than at radio set. If uncertain of choice, write us (describing source of interference if known) for recommendation of proper noise-eliminating method.

TACO H-F ALL-WAVE LINE FILTERS

A composite filter containing three complete filter circuits. Covers short-wave and ultra-short-wave as well as the standard broadcast bands. R.F. choke filter system stops noises that would ordinarily enter the set through the power line. Most efficient when installed on the interference-causing device. Operates on either A.C. or D.C. devices drawing not more than 200 watts at 120 volts. Measures only 4"x4"x5". Easily installed without tools. Plug in and connect to ground. With attachment cord and unbreakable rubber plug. In brown metal case. Shpg. wt., 5 lbs. An effective filter.

B7903. Model 100. NET.....\$4.41

MILLER ALL-WAVE LINE NOISE FILTER

A highly efficient unit offering positive results through use of complete filter circuit. Utilizes capacitive and inductive filter units for best results. Oil condensers give long life. May be used on small interfering devices or on radio itself. Plug radio or appliance into filter and connect to ground. For 110-220 V. A.C. or D.C., up to 150 watts. Wt. 2 lbs. Underwriters' Approved.

B7213. List, \$4.00. YOUR NET PRICE.....\$2.35

MILLER ALL-RUBBER SHAVER FILTER

Shock-proof, unbreakable, molded-rubber construction. Employs inductive-capacitive circuit. A sure cure for interference from shavers. Wt. 8 oz.

B7214. NET.....88¢

CONTINENTAL FILTERNOYS

Eliminate or materially reduce "man-made" static caused by vacuum cleaners, refrigerators, shavers, mixers, etc. For 110-120 Volts, A.C. or D.C.

B7218. Type R01DH. Plug-in Rejector-type. For use between radio and power outlet. For any radio drawing up to 5 amps. Shpg. wt. 8 oz. **59¢**

B7220. Type R01H. Rejector-type for use where neutral power wire is grounded. Plugs in. 5 amp. capacity. Shpg. wt., 8 oz. **44¢**

B7219. Type F01DH. Plug-in Suppression-type for elimination of noise at motors using less than 300 watts. Shpg. wt., 8 oz. **59¢**

TYPE GO1DH

Wire-in suppression-type unit with two chokes and two condensers with grounded frame. Mounts on motors, diathermy or dental machines, etc., drawing less than 300 watts A.C. or D.C. 3½"x1¼". Shpg. wt., 8 oz.

B7221. NET.....59¢

AEROVOX FILTERS

TYPE IN-24 ELIMINATOR

- Eliminates power line interference
- Completely factory-built
- Simple one-minute installation

Completely eliminates all power-line noises when connected between noisy motor and line. Greatly reduces man-made static from electric motors, vacuum cleaners, washers, and other interfering electrical devices. Provided with inductance as well as capacitance for thorough filtering action. Aerovox Interference Eliminators increase your radio enjoyment. No tools needed—just plug in and connect to ground. Handles 3 amps. Complete with cord and plug. Size: 4"x2½"x3½". For 110-220 volts, AC or DC. Shpg. wt., 3 lbs. **\$2.79**

B6953. List, \$4.75. NET.....\$2.79

TYPE IN-29 FILTER

Effective for reduction of interference which is variable in character but strong in intensity. Ideal for eliminating noise caused by electric razors and other vibrating devices. (Max. V., 125 AC or DC.) Shpg. wt., 1 lb.

B6956. NET.....44¢

TYPE IN-30 FILTER

Similar to IN-29, but provided with inductance in addition to capacitance for elimination of more intense interference. May effectively be used either at source of interference or at radio set. Size: 1½ x 3". Wt., 1 lb.

B6957. NET.....73¢

B6958. TYPE IN-31. Similar to above but for elimination of more serious interference. Size, 1½x3". **NET.....88¢**

OTHER AEROVOX FILTERS

B6954. Type IN-27. NET.....38¢

B6955. Type IN-28. NET.....56¢

INTERFERENCE ANALYZER

Contains the seven fundamental filter circuits, one of which will eliminate the interference being traced. Plugs into power-line ahead of radio receiver or noise-producing device. Rotary selector indicates proper filter (by Aerovox type number) to be used for best results. Supplied with complete instructions. In metal case, 5½" x 5½" x 8". For AC or DC. Shpg. wt., 6 lbs.

B6959. NET.....\$6.86

ICA ALL-WAVE FILTERVOLT

HEAVY-DUTY TYPE

A new and improved noise filter, especially designed for eliminating interference in all-wave receivers. Can be installed at the radio or at the source of noise. Contains heavy-duty RF chokes and large capacitors. The "PI" filter circuit used has proved especially effective for eliminating noise caused by heating pads, automatic irons, toasters, vacuum cleaners, etc. Rated conservatively at 250 watts. For use on 32, 110 and 220 volt AC or DC. Shpg. wt., 5 lbs.

B5500. NET.....\$2.35

ICA STANDARD FILTERVOLT

An efficient filter to eliminate noise interference from all types of electrical appliances. For installation directly ahead of radio set or at source of noise disturbance. Assures noise-free radio reception. Shpg. wt., 1½ lbs.

B5564. NET.....\$1.44

INTERFERENCE ELIMINATORS • FILTERS

NEW SPRAGUE PROFESSIONAL METHOD OF NOISE ELIMINATION

Locate and eliminate noise interference by scientific analysis. Only three simple steps: (1) locate the trouble with the Interference Locator; (2) determine the remedy with the Interference Analyzer; and (3) install the correct filter from the list below. Countless radio receivers need this service. Specialize in noise elimination work in your locality. You'll find it's profitable.



THE SPRAGUE INTERFERENCE ANALYZER

This sturdy, portable instrument determines quickly and accurately the proper type of filter needed to eliminate noise. Widely used by power companies, servicemen, etc. Easy to use. Simply connect analyzer into the circuit of any device causing radio interference. By rotating the selector switch any one of 60 different filter combinations is connected into the circuit, thus enabling you to determine the correct filter for installation. Interference booklet and chart supplied free. Shpg. wt., 8 lbs.

B11451. NET.....\$23.94

SPRAGUE INTERFERENCE ELIMINATOR CONDENSERS & CHOKES



The filter components listed below have been especially designed for the elimination of interference in radio reception. Highest quality chokes and condensers. Condensers may be used on 220 volt A.C. or D.C. lines.

B11461. IF-15. Fig. B. A triple-section filter for small motors used in mixers, fans, drills, etc. RMA recommended design. Size, 2 1/4" x 1" dia. 6' leads. Shpg. wt., 8 oz. **NET.....\$73.**

B11462. IF-25. Fig. A. Double-section filter for medium-sized motors up to 1 H.P. and to 220V. Used on grinders, drill presses, etc. Size, 3 1/2" x 1 1/2" dia. Shpg. wt., 8 oz. **NET.....\$1.32**

B11463. IF-G1. Fig. B. Metal encased, single-section filter for use on brush connector of generators, converters, etc. Case grounded. 1 7/8" x 1 1/8" dia. Shpg. wt., 6 oz. **NET.....\$38.**

B11464. IF-G10. Fig. A. High-capacity, single-section filter with enclosed terminals. Used with IF-11 on 3-wire distribution systems. 3 1/4" x 1 1/2". Shpg. wt., 8 oz. **\$1.18**

B11455. IF-11. Fig. A. Dual high-capacity filter for heavy industrial uses. Size, 4 1/4" x 1 1/2". 6' leads. Wt., 1 lb. **NET.....\$1.68**

B11458. IF-21. Fig. B. Dual, compact filter with 220 V. A.C. rating. Case grounds to motor frame. Size, 2 3/8" x 1" dia. Shpg. wt., 1 lb. **NET.....\$59.**

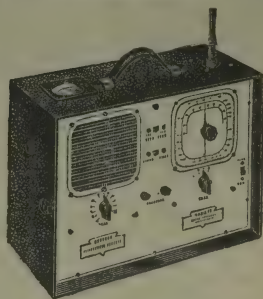
B11459. CH-1. Fig. C. Metal encased choke of adequate inductance for R.F. filtering. 10 Amp. size, 3 1/8" x 1 1/8" x 1 1/2". Shpg. wt., 1 lb. **NET.....\$79.**

B11460. CH-2. Fig. C. R.F. filter choke as above to carry 20 amperes. 8 inch pigtail leads. Size, 3" x 2 1/2" x 2 1/4". Shpg. wt., 1 lb. **NET.....\$1.62**

RADIO INTERFERENCE MANUAL

Compiled by Sprague engineers to help you determine the source of radio interference. All types of interference considered and the remedies suggested. Includes data on motors, neon signs, etc. Shpg. wt., 1 lb.

B11470. NET PRICE.....\$25.



INTERFERENCE LOCATOR

This brand new, completely portable, self-contained Model IL-2 Interference Locator will take the kinks out of one of the Serviceman's toughest jobs. Enables you quickly to determine the source, extent, and remedy of all kinds of interference. Consists of a specially designed, portable battery receiver with full three-band range: 500 to 1700 KC. 1.7 to 5 MC. and 15 to 32 MC. Employs extendable pole antenna as well as demountable loop antenna in a special antenna circuit for excellent sensitivity. Sensitivity is less than 1 MV for 10% output meter scale deflection. Includes built-in loudspeaker plus headphone jacks; sensitive, easy-to-read two-range output meter; and AC-DC cord connectors for line operation when desired. Supplied complete with batteries in a rugged metal case, 15"x11"x3", with detachable cover and convenient handle; loop antenna is carried in cover recess when not used. Shpg. wt., 23 lbs.

B11453. CASH PRICE.....\$79.90

\$7.99 down, \$9.89 monthly for 8 months. Write for prices of coaxial cable with connectors for use of pole antenna as probe.

CORNELL-DUBILIER "QUIETONE" FILTERS



FOR USE AT RADIO RECEIVER

MODEL IF-18. An efficient all-wave, capacitive-inductive, sectional-band type filter for use in connection with electrical appliances when interference conditions are severe. Has binding post for making ground connection. In walnut bakelite case. 110 V. AC-DC at 5 amps. 5x3 1/2x2 1/4". Shpg. wt., 6 lbs. **B7559. NET.....\$2.94**

MODEL IF-19. An efficient capacitive-inductive type filter for use where interference is severe. Has binding post for ground connection. Mounting ears permit filter to be set in any convenient position. In walnut bakelite case. 110 V. AC-DC at 5 amps. Size: 4x2 1/2x2 7/8". Shpg. wt., 4 lbs. **B7561. NET.....\$2.35**

MODEL IF-21. All-wave capacitive-inductive filter for electric shavers, barber clippers, etc. 110 V. AC-DC at 1.6 amps. Walnut finish. 4x2 1/2x2 7/8". Shpg. wt., 2 1/2 lbs. **B7563. NET.....\$1.47**

MODEL IF-5. For small appliances such as food mixers, hair dryers, etc., where radio interference is of low intensity. 110 V. AC-DC at 5 amps. Walnut finish. Wt., 1 lb. **B7565. NET.....\$4.41**

MODEL IF-7A FOR INDUSTRIAL USE
An ideal filter designed to block severe radio interference caused by motors, generators, elevators, diathermy machines, oil burners, etc. Especially suitable for factory, office, and apartment building installations. This Quietone consists of low-loss coils and highest quality capacitors that will correct noise conditions in both Broadcast and Short-Wave receivers. A heavy-duty, capacitive-inductive filter for single phase, 110-120 V. AC-DC at 5 amps. Housed in a heavy steel cut-out box, with hinged cover, finished in grey enamel. With knockout holes for BX or conduit connectors; ready for wall mounting. Size: 6 x 6 x 4". Shpg. wt., 9 lbs. **B7568. NET.....\$4.41**

MODEL IF-4. Ideal for use with small radio receivers, such as AC-DC midget sets, etc., where noise level is not too severe. Connects in power line between the radio receiver plug and wall receptacle. 110 V. AC-DC at 5 amps. Contained in attractive walnut finished metal shell, 2"x1 1/2" dia. Shpg. wt., 1 lb. **B7560. NET.....\$44.**

MODEL IF-6. For all types of home electrical appliances where interference is of moderately low intensity. Installed between appliance and power line with short return lead which reduces radiation. 110 V. AC-DC at 5 amps. Walnut finish. Size: 2"x1 1/2" dia. Shpg. wt., 1 lb. **B7562. NET.....\$73.**

MODEL IF-20. A plug type filter for small electrical appliances where interference is very low. 110 V. AC-DC at 5 amps. Bakelite case; walnut finish. Shpg. wt., 1 lb. **B7564. NET.....\$29.**

MODEL IF-22. Special filter with 6 foot rubber line cord and plug for electric shavers. 110 V. AC-DC. Shpg. wt., 1 lb. **B7566.** For Schick, Knapp Monarch, etc. **B7567.** For Packard, Reming-ton-Rand, etc. **NET EACH.....\$1.03**



MEISSNER WAVE TRAPS

Interference created by powerful local stations, code and long wave signals can be eliminated by these units. Select a wave trap which will tune to the frequency of the interfering signal. Where frequency of interference is not known, use dual model. Installed in series with aerial lead-in.



B5679. Dual Universal Model. Will eliminate interfering signals in the broadcast, police and I.F. channels. Dual control tunes from 400 to 475 K.C. and 550 to 1950 K.C. No loss of strength in desired signal. Shpg. wt., 2 lbs. **NET.....\$1.55**

FOR BROADCAST BAND

"A" operates on low frequency broadcast. "B" on medium frequency broadcast. "C" on high frequency broadcast. "D" eliminates I.F. interference caused by code, etc. Av. wt., 2 lbs.

No.	Type	Freq. Covered	NET
B5652	A	400 to 700 K.C.	EACH
B5653	B	650 to 1000 K.C.	73.
B5654	C	950 to 1600 K.C.	
B5659	D	456 K.C. (shielded)	53c
B5651	D	456 K.C. (unshielded)	38c

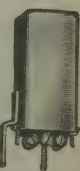
FOR AMATEUR BAND

For interference caused by nearby amateur stations. Select proper frequency.

B5655. 20 Meter Band.....
B5656. 40 Meter Band.....
B5657. 80 Meter Band.....
B5658. 160 Meter Band.....
EACH 73.

R.C.A. MULTI-RANGE WAVE TRAP

A new low-cost, universal wave trap of superior design. Attenuation 40 to 1 over entire broadcast band. Eliminates interference from commercial, ship, police, and amateur stations. Also tunes out interfering broadcast stations. Frequency range, 450 to 2100 K.C. Shielded against interference and reaction with receiver. Causes no loss of desired signal. Shpg. wt., 1 lb. **B7599. NET PRICE.....\$1.09**



BURGESS RADIO KNIGHT BATTERIES



BURGESS PLUG-IN DRY BATTERIES

The rigid specifications to which these famous batteries are built make them suitable for all radio and laboratory requirements. They are absolutely moisture- and climate-proof, and incorporate the highest degree of purity in materials giving many hours of continuous good service. No finer batteries are made today to meet every requirement for pure DC. ALLIED'S stock of Burgess Batteries is always fresh, assuring you of full rated, long-life efficient service from each battery.

Cat. No.	Factory No.	Volts	Shpg. Wgt.	Unit Pkg.	List Price	Single Net Price	Unit Pkg. Net Price
SUPER "B" BATTERIES							
B8900	21308	45	15	6	\$2.90	\$2.23	\$2.03
B8901	22308	45	10½	6	2.10	1.61	1.46

STANDARD "B" BATTERIES							
B8902	10308	45	13	6	\$2.40	\$1.85	\$1.68
B8903	2308	45	9½	6	1.69	1.33	1.21
B8904	*5308	45	4	5	1.50	1.16	1.05
B8928	*Z30N	45	1¼	6	1.70	1.27	1.15
B8929	X30FL	45	1½	6	2.60	1.75	1.75
B8985	*W30BPX	45	1	6	2.55	1.70	1.70
B8979	*A30BP	45	3	6	1.90	1.27	1.27
B8905	*2156	22½	5½	5	1.50	1.12	1.02
B8906	*4156	22½	1½	4	.85	.64	.58

STANDARD "C" BATTERIES							
B8907	5156	22½	2	4	\$0.95	\$0.71	-\$0.65
B8908	-	2370	4½	1½	10	.40	.30
B8909	*5540	7½	1	4	.65	.48	.44
B8910	*5360	4½	½	4	.40	.31	.28
B8917	BSP	7½	1	4	.65	.48	.44
B8980	*W5BP	7½	½	6	.96	.64	.64

Connectors are not supplied with batteries. See following listing:
B8930. Connector for all 45 volt batteries. **EACH** 3½¢
B8931. Connector for 22½ volt batteries. **EACH** 3½¢
B8934. Connector for 7½ volt batteries. **EACH** 3½¢
B8932. Connector for 4½ volt batteries. **EACH** 3½¢
 *Not available with Plug-in feature.

PLUG-IN "B" AND "C" PACKS							
FOR PHILCO 33, 38, 38A, 623 AND 643							
B10042	F90-D6	135	39½	1	\$7.25	\$5.15	\$5.15
B10027	*G90-D6	135	44½	1	7.50	5.44	5.44
FOR PHILCO 34, 34A, 39, 39A							
B10028	G90-D8	135	45	1	7.50	5.44	5.44

*1000 hours of service at 11 M.A.

DRY CELL "A" BATTERIES AND PACKS							
Cat. No.	Factory No.	Volts	Shpg. Wgt.	Unit Pkg.	List Price	Single Net Price	Unit Pkg. Net Price
B8911	4FA	1½	1½ lb.	20	\$0.45	\$0.33	\$0.30
B8912	44	1½	1½ lb.	6	.68	.45	.45
B8918	4FH	1½	1½ lb.	20	.38	.29	.26
B8919	474H	6	7 lb.	6	1.85	1.41	1.28
B10020	20F2	3*	14 lb.	1	3.40	2.35	2.35
B10019	40F2	3*	30 lb.	1	7.00	4.76	4.76

B8933. Reducing resistor. For batteries marked (*) to drop voltage to 2 volts. **NET** 25¢

TUBULAR FLASHLIGHT UNI-CELLS			
B8913. No. 1 1½ volts. Size: 1½x1 in. Baby type. 2 oz.	B8914. No. 2 1½ volts. Size: 2½x1½ in. Standard type. 4 oz.	List, 10c.	NET EACH 6½¢

110 VOLT ELECTRIC SHAVER BATTERIES	
B8995. Type Z90PI. Heavy-duty type. Size: 3¼"x3¼". \$3.32 x5%. Shpg. wt., 5 lbs. NET	B8996. Type W90PI. Size: 2¾"x3¼"x6¼". Shpg. wt. \$3.75 2½ lbs. NET

NEW! TYPE M30 "MULTI-PLY" 45-VOLT "B" BATTERY FOR PORTABLES

Newly-constructed Burgess 45-volt "B" battery especially designed for use in portable radios. Replaces Eveready No. 482 Mini-Max. Will give twice the listening hours of conventional batteries of equal size. Actually establishes a new high in service life per unit of weight. Has receptacle for standard plug. For the following portables: RCA BP55, BP56, BP85; Stewart Warner 02-4A1, 05-5L1 to 05-5L9; Motorola 40-65-BF, 41H; Sentionel 192XL, 202BL, 205BL, 172BL; General Electric HB410-11-12, JB513, JB508, etc. Size, 3¼"x1½"x5½"; fits all sets mentioned. Shpg. wt., 2½ lbs.

B8981. List, \$1.50. **NET EACH** **\$1.05**

KNIGHT PLUG-IN DRY BATTERIES

Only the highest quality materials are used in the making of Knight batteries. Each Knight battery is scientifically protected against internal shorts by a unique sealing method. These batteries are perfectly climate-proof and are designed for long and full life of service. For maximum battery value — buy Knight. Our quick turnover assures you of constantly fresh stocks of all Knight battery types. Our low prices assure you of bigger savings and bigger profits.



Catalog No.	Type	Volts	Size	Shipping Weight	NET EACH
B8920	Standard	45	7¼"x6" x3"	10 lbs.	\$0.94
B8921	Heavy-Duty	45	6¼"x7¼"x4"	12 lbs.	1.28
B8923	"B" or "C"	22½	4" x2½"x2¼"	2 lbs.	.61
B8924	"C"	4½	4" x3" x1¼"	1 lb.	.24

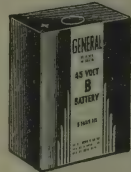
Connector plugs are not included. They are supplied as follows:
B8930. For Knight Standard or Heavy-Duty 45 V. "B". **EA.** 3½¢
B8931. For Knight 22½ Volt "B" and "C". **EACH** 3½¢
B8932. For Knight 4½ Volt "C". **EACH** 3½¢

DRY CELL, FLASHLIGHT CELLS, AND 6 VOLT PACK

B8925. No. 6 Dry cell	1½	6x2½"	2 lbs.	21¢
B8926. No. 1 Midget cell	1½	1" x1½"	2 oz.	3½¢
B8927. No. 2 Std. cell	1½	1½"x2½"	4 oz.	3½¢
B8940. "Hot Shot" type	6	10½"x2½"x6"	7 lbs.	\$1.21

GENERAL MIDGET PORTABLE "A" AND "B" BATTERIES

Extremely small, light-weight portable batteries. For use in portable radio receivers and transmitters, transceivers, monitors, hearing aids, weather balloons, pocket radio sets, etc. All General batteries are built of finest quality materials and are conservatively rated. Patented construction insures long service life. Approximate ampere hour ratings are given in table below. B8936 and B8937 are plug-in types; for proper connector plugs order B8930 listed in Knight table above. All others have Fahnestock clips.



No.	Volts	Length	Width	Ht.	Wt.	Amp. Hrs.	NET
B8935	45	3"	1¼"	4¼"	11 oz.	.19	\$2.00
B8936	45	3"	2¼"	4¼"	22 oz.	.4	1.05
B8937	45	4¼"	2½"	5½"	50 oz.	1.0	1.05
B8938	3	3½"	1½"	4¼"	20 oz.	8.0	.40
B8939	3	2½"	1½"	4¼"	16 oz.	15.0	.40

POPULAR RAY-O-VAC PLUG-IN BATTERIES

These compact Ray-O-Vac batteries are sturdily constructed of the highest quality materials to insure dependable power for portable and home radio sets. Built in accordance with the most rigid specifications of battery set manufacturers, they are ideally suited for replacement purposes, and are designed to give long-lived efficient service. Each unit is equipped with convenient plug-in socket.



P94A "A" BATTERY. A 1½ volt lightweight unit for portable sets. Has two-prong socket for set plug or adapter. Also replaces Burgess 4F, General 4F1, and Eveready 742. Size, 2½"x2½"x4". Wt., 1 lb. **B9750. NET** **39¢**

P5303 "B" BATTERY. This 45 volt unit is equipped with special "two-in-one" socket. It is a suitable replacement battery for Burgess B30, General V30B, Eveready 762, and Philco P305. Size, 4¼"x2½"x5½". Shipping weight, 3 lbs. **B9760. NET** **\$1.12**

AB82 "A & B" PACK. A 1½ volt "A"—90 volt "B" combination unit. Has receptacle for four-prong plug. This pack will also replace Burgess 17GD60, General 60DL11L, Eveready 748, and Philco P60-DL-12L. Size, 15¼"x4¼"x7". Shipping weight, 22 lbs. **B16150. NET** **\$3.65**

AB419 "A & B" PACK. A 1½ volt "A"—61½ volt "B" unit. 4-prong socket. Will replace General 41A-4FL, Burgess 4GA42, Detroit 303 and Philco 81T (Little Pal). Size, 1½"x4¼"x9¼". Shpg. wt., 5 lbs. **B9767. NET** **\$1.72**

AB84 "A & B" PACK. A combination 1½ volt "A"—90 volt "B" unit. Has receptacle for 4-prong socket. This pack will replace General 60A-4L, Burgess 4TA60, Philco 40-8FT, Sentionel 160BL and 170BL, Admiral 33F5, 34F5, 35G6, 37G6, and Knight Models A10700, A10701, E10701, N2870, E10756, N2871. Size, 1½"x6"x11¼". Shpg. wt., 6 lbs. **B9768. NET** **\$2.20**

AB684 "A & B" PACK. A 6 volt "A"—90 volt "B" combination unit. Has receptacle for 4-prong socket. Replaces General P60A-110. Size, 1½"x6"x11¼". Shpg. wt., 6 lbs. **B9769. NET** **\$2.20**



Replacement
Plug-in

BATTERIES FOR ALL PORTABLE SETS!

BURGESS					GENERAL			Replaces Everyday No.
No.	Type	NET	Volts	Size In Inches	Wt. Lbs.	No.	Type	NET
PORTABLE "A" BATTERIES								
B9989	2F	\$0.28	1 1/2	1 1/2 x 2 1/2 x 4 1/2	2 1/2	B9786	2F1	\$0.21
B9976	2F4	.70	6	2 1/2 x 3 1/2 x 5 1/2	2 3/4	B9785	8F4	.63
B9972	2F4L	.70	6	1 1/2 x 3 1/2 x 2 1/2	1 1/2	B9793	8CF4	.718
B9970	4F	.42	1 1/2	1 1/2 x 2 1/2 x 1 1/2	1 1/2	B9780	4F1	.56
B9968	4FL	.42	1 1/2	1 1/2 x 2 1/2 x 1 1/2	1 1/2	B9781	3F1	.56
B9969	6F	.52	1 1/2	1 1/2 x 3 1/2 x 1 1/2	2 1/4	B9782	6F1	.743
B9973	8F	.67	1 1/2	2 1/2 x 3 1/2 x 5 1/2	2 3/4	B9783	8F1	.69
B9993	8FL	.67	1 1/2	1 1/2 x 3 1/2 x 2 1/2	3	B9794	8CF1	.56
B9971	16G	1.12	1 1/2	4 1/2 x 5 1/2 x 7 1/2	6 1/2	B9787	12LIS	1.26
B9991	19G	1.52	1 1/2	4 1/2 x 5 1/2 x 7 1/2	7 1/2			
B9972	20F	1.42	1 1/2	1 1/2 x 7 1/2 x 7 1/2	7 1/2			
B9977	FX	.10	1 1/2	1 1/2 x 2 1/2 x 4 1/2	1 1/2			
B9974	F4PI	.38	6	2 1/2 x 2 1/2 x 4 1/2	1 1/2			
B9975	F4PIX	.38	6	2 1/2 x 2 1/2 x 4 1/2	1 1/2			
B9990	G3	.52	4 1/2	4 1/2 x 4 1/2 x 1 1/2	1 1/2			
B9994	G5	.52	7 1/2	3 1/2 x 2 1/2 x 4 1/2	2			

PORTABLE "B" BATTERIES								
B9185	W20PI	\$0.88	30	1 1/2 x 1 1/2 x 4 1/2	1 1/2	B9792	20AAAG	\$0.77
B9178	A30	1.05	45	2 1/2 x 3 1/2 x 4 1/2	1 1/2	B9788	V30A	.94
B9177	B30	1.05	45	2 1/2 x 3 1/2 x 4 1/2	2 1/2	B9787	V30B	1.05
B9179	Z30	1.05	45	4 1/2 x 3 1/2 x 4 1/2	1 1/2	B9796	V30AA	1.05
B9180	A30M	1.05	45	1 1/2 x 4 1/2 x 5 1/2	1 1/2			
B9181	A30X	1.05	45	1 1/2 x 4 1/2 x 5 1/2	1 1/2	B9790	V30A	.94
B9180	W30PI	1.45	45	1 1/2 x 4 1/2 x 5 1/2	1 1/2	B9789	V30AAA	1.94
B9184	W34	1.37	51	1 1/2 x 4 1/2 x 5 1/2	2 1/2	B9791	34AAAG	1.22
B9183	W40	1.55	60	1 1/2 x 4 1/2 x 5 1/2	1			
B9998	Z59	2.40	88 1/2	3 1/2 x 2 1/2 x 4 1/2	2 1/2			
B9182	A60	2.40	90	3 1/2 x 4 1/2 x 4 1/2	3 3/4			
B9186	D60	2.38	90	3 1/2 x 4 1/2 x 4 1/2	15 1/2			
B9981	M30	1.05	45	1 1/2 x 3 1/2 x 5 1/2	1 1/2			

"A" AND "B" COMBINATION PACKS								
B9140	4FA60	\$2.27	1.5/90	3 1/2 x 7 1/2 x 4 1/2	4 1/2	B10032	41A4FL	\$1.75
B9141	4GA42	1.82	1.5/63	2 1/2 x 4 1/2	4 1/2	B10049	60A2L	2.36
B10003	4TA60	2.45	1.5/90	2 1/2 x 8 1/2 x 4 1/2	4 1/2	B10030	60A4L	2.35
B10001	5DA60	2.36	1.5/90	2 1/2 x 5 1/2 x 6 1/2	4 1/2			
B9142	6FA60	2.44	1.5/90	1 1/2 x 6 1/2 x 1 1/2	5 1/2	B9779	60D10L	3.50
B10002	6TA60	2.45	1.5/90	2 1/2 x 10 1/2 x 4 1/2	4 1/2			
B10023	17GD60	3.55	1.5/90	4 1/2 x 1 1/2 x 7 1/2	22 1/2			
B9143	18GD60	3.62	1.5/90	6 1/2 x 5 1/2 x 12 1/2	23			
B10005	C2A28	2.46	6/90	6 1/2 x 4 1/2 x 1 1/2	2 1/2			
B10004	2F4B60	2.46	6/90	4 1/2 x 1 1/2 x 4 1/2	3 1/2			
B9147	F4A41	1.68	6/61.5	9 5/8 x 4 1/2 x 1 1/2	8 1/2			
B9148	F4B60	1.48	6/90	10 1/2 x 2 1/2 x 5 1/2	8 1/2			
B10035	G4B50	2.46	6/75	4 1/2 x 12 1/2 x 2 1/2	6 1/2			
B10036	G4B60	2.46	6/90	10 1/2 x 2 1/2 x 5 1/2	7			
B10044	2GA60	2.03	1.5/90	4 1/2 x 9 1/2 x 2 1/2	4 1/2			
B10045	D4A60	2.03	6/90	6 1/2 x 5 1/2 x 2 1/2	5			
B9144	3FA60	2.24	1.5/90	2 1/2 x 10 1/2 x 4 1/2	4 1/2			

ALLIED makes it easy for you to select replacement plug-in batteries for any of the Portable Battery Sets made. The chart at left gives size, type and price of both General and Burgess batteries. These Burgess and General batteries are built in accordance with specifications of the battery set manufacturers and will match or surpass the original batteries. Simply note type number and size of original battery which you wish to replace, check with chart and select either General or Burgess replacement. Batteries listed on same line are interchangeable. Use listing below for selection, and chart at left for prices and stock numbers. Order as many batteries as called for opposite model number of your set. If the battery you need is not listed, order from us, giving its type and size, as well as the make and model of the set. An exact replacement will be shipped promptly. **ALLIED** will supply all new batteries as quickly as they are announced. For your convenience we list Eveready type numbers; Eveready batteries are replaceable by the equivalent General or Burgess batteries listed.



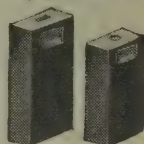
ALLIED'S tremendous volume of sales assures you of fresh batteries always.

REPLACEMENT ADAPTER PLUGS

B9126, 2 Prong 6 V. "A".
B9127, 3 Prong "B".
B9128, 4 Prong "A" & "B".
B9129, 2 Prong 1 1/2 V. "A".
B9130, 4 Prong 6 V. "A". & 90 V. "B".
NET EACH.....3 1/2c

For Special Plug-In Power Units which will play 1.4 volt Portable from 110 volts AC., see our listings on pages 70 and 71.

NAME AND MODEL	BURGESS*	NAME AND MODEL	BURGESS*	NAME AND MODEL	BURGESS*
ADMIRAL		MONT. WARD		TRAV-LER	
164-4D, 335-4Z.....	2-B30, 1-6F	5019 AIRLINE.	2-B30, 1-8F	B70.....	2-A30, 1-F4PI
3314F.....	2-A30, 1-4F	454, 555 AIRLINE.	2-B30, 1-4F	B71, FB73.....	2-B30, 1-2F4
319-4Z.....	2-A30, 1-4FL	6B7 AIRLINE.	2-B30, 2-G3	B81, FB82.....	2-M30, 1-2F4L
33F5, 34F5, 36H5....	1-6FA60	461 AIRLINE.	2-A30, 1-4FL	TROUBADOUR	
AIR KING		MOTOROLA		948 & 9-457 Clark...	2-B30, 1-6F
412, 3950.....	2-B30, 1-2F4L	41-D, 41-D2, 51-D1,	2-B30, 1-6F	0-461.....	2-M30, 1-8FL
401.....	2-M30, 1-2F4L	51-D2, 52-D.....	1-W20PI	0-530, 531, 532, 533,	
4012.....	1-D4A60	41S Sporter.....	1-W34, 1-2F	558.....	2-B30, 1-F4PI
ARVIN		57BP1, 57BP2.....		WELLS GARDNER	
802.....	2-M30, 1-8FL	57BP3, 57BP4.....		5B3, 4B5, 5B8.....	2-B30, 1-8F
CLIMAX		65BP1, 65BP2.....	2-M30, 2-G3	6B7, 6B10.....	2-B30, 2-G3
73.....	1-A60, 1-4F	65BP3, 65BP4.....	2-M30, 1-4F	WESTINGHOUSE	
578, 507, 509, 592....	2-B30, 1-F4PI	PHILCO		Carryette WR-675...	2-B30, 1-8F
CROSLLEY		71T, 72T, 74T, 504...	2-B30, 1-4F	WR-674.....	2-B30, 1-4F
B429A.....	2-B30, 1-8F	81T, "Little Pal".....	1-4GA42	WR-676.....	2-M30, 1-2F4L
549.....	1-F4A41	RCA	1-6FA60	ZENITH	
DELCO		94BP1, 94BP4.....		4K400D, M, S, Y, L...	2-B30, 1-4F
R1400.....	2-B30, 1-8F	94BP-61, 62, 64, 66,	2-B30, 1-4F	4K402D, M, F, L...	1-4FA60
R1401, R1402.....	2-A30, 1-4FL	80, 81.....	2-M30, 1-F4L	5G401-D, L, M, Y....	1-F4B60
DETROLA		BP55, 56, 85.....		5G403.....	1-F4B60
Pee-Wee No. 282....	1-A60, 1-4F	SENTINEL		5G500, 5G501.....	1-G4B50
303.....	1-4GA42	151BL.....	2-B30, 1-4F		
339, 3401, 3412.....	2-M30, 2-G3	180XL (Early).....	2-M30, 1-F4L		
EMERSON		180 (Late), 201XL...			
CE250.....	2-B30, 1-4F	RC-148BL, 178BL...			
CE263, CT275.....		160BL, 170BL.....			
DC308, CX263.....		213P, 205, 192XL...			
CX305, CX308.....		217P.....			
CX283, CX284.....	2-B30, 1-8F	202BL, 172BL.....			
FADA		SONORA			
P-40, PD-40, PL-40...	2-B30, 1-8F	PL29, PL37.....	1-5DA60		
P-47, PD-47, PL-58...	2-B30, 1-4F	XL28, XL29.....	2-B30, 1-4F		
P-49, PD-49, P-58....	2-B30, 1-4F	KB73, KD75.....	2-B30, 1-2F4		
FIRESTONE		KG80.....	1-Z30, 3-f2 cells		
S-7426-7, S-7426-9...	1-5DA60	SPARTON			
S-7402-6.....	1-G4B60	590-1.....	2-B30, 1-2F4		
AC-DC.....	1-G4B60	591-1.....	2-B30, 1-F4PI		
GENERAL ELECTRIC		STEWART WARNER			
GB400, HB408.....	2-B30, 1-8F	02-411.....	2-B30, 1-4F		
HB402, HB403.....		15-5X1.....	2-M30, 1-2F4L		
HBX467.....	2-Z30, 1-4F	05-5L1 to 05-5L9...	2-M30, 1-8FL		
HB504, 505.....	2-B30, 1-2F4	05-5X, 02-4A1.....	2-M30, 1-6F		
GB440.....	2-B30, 1-6F	STROMBERG			
HB-513, 508, HB412...	2-M30, 1-2F4L	CARLSON			
HB410, 411.....	2-M30, 1-8FL	402H.....	2-M30, 1-8F		
MAJESTIC		1-W40, 1-FX.....			
420PL, 421.....	2-B30, 1-4F	2-M30, 1-F4PI.....			
130U.....	2-B30, 1-6F	553B, 554, 1555....	2-B30, 1-4F		
130.....	1-W40, 1-FX.....	1556, B70, 556....	2-B30, 1-F4PI		
1BR50B, 1BR50BP....	2-M30, 1-F4PI				
5BD, SULBD.....	2-A30, 1-4FL				



Burgess "B"



Burgess "A"



General V30AAA 45 V.



Burgess "B"



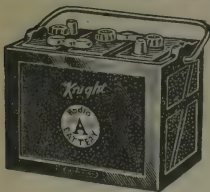
Burgess "B"

BATTERY KITS FOR KNIGHT SETS

No.	For Models	NET
B10030	A10700, A10701, A10725.....	\$2.35
B9151	A10730.....	1.15
B9773	A10748.....	2.05
B10048	A10761.....	2.06
B10047	A10795, A10873, E10757(after 8-13-39), N2812(after 8-13-39), A10826, E10715, E10716.....	2.95
B10049	A10848.....	2.36
B10034	A10855.....	2.49
B10033	A10872, A10889.....	2.56
B10046	E10061, E10758....	
B10022	E10755, E10756....	3.15
B10021	N2870, N2871, E10757 (before 8-39), N2812 (before 8-39), E10775, E10777....	2.25
B9131	A10775, A10785, A10786, A10787, A10788, A10879, A10880, A10882, A10884, A10885, A10886.....	3.14
B16150		2.45

* For "General" battery equivalent of Burgess types shown here refer to "General" listing in table above.

BATTERIES • BATTERY CHARGERS



KNIGHT LONG-LIFE STORAGE BATTERIES

Highest quality storage batteries for radio equipment, low voltage lighting systems, etc. Only finest materials are used in their construction, providing long trouble-free service. Durable grids, cast from lead, have special interlocking design which reduces shedding to a minimum. Plates are considerably heavier than those used on standard batteries. Separators are pure Cedar, selected after careful inspection.

Have tapered terminal posts, sealed against leakage, and are provided with wing-nut clamps for connecting radio wiring. B16160 and B16161 are ideal for farm lighting plants. Shipped by freight or express.

2 VOLT BATTERIES

No.	Plates	Amp. Hrs.	Shpg. Wt.	NET
B16155	13	115	16	\$2.95
B16156	21	150	23	3.75

6 VOLT BATTERIES

B16157	6	95	40	\$5.35
B16158	15	121	42	6.45
B16159	19	155	53	7.95

6 VOLT HEAVY-DUTY

B16160	21	150	58	\$ 8.95
B16161	25	180	70	11.95

EVEREADY AIR CELL "A" BATTERY

FOR 2-VOLT SETS

Designed for 2-volt battery radios. Provides long-life operation—at least 1000 hours guaranteed. No recharging is necessary. Supplied in leak-proof cases. For sets with maximum current drain of 600 M.A. Measures 10 1/2 x 6 1/2 x 9 1/2. Shpg. wt., 24 lbs. (Not available. Shipped express or freight only.)

B10025. Model A2600. \$4.51

TRIPLETT BATTERY TESTER AND VOLTMETER



Handy Triplett pocket-size, battery tester. Provides actual individual load tests for 1 1/2, 3, 4 1/2, 6, 7 1/2, 9, 22 1/2, 45, 67 1/2, 90 and 135 volt batteries by means of selector switch control. Can also be used as a sensitive voltmeter. The special scale has a "Good" sector for all dry

batteries, including popular portable types. Supplied in a pocket-size black molded case. Complete with leads. Wt. 5 lbs. B8499. NET. \$7.68

"A", "B" & PORTABLE BATTERY TESTERS



Watch-case type testers for "B" Batteries, Dry Cells, Storage Batteries, etc. Portable testers have dual coil construction providing loads necessary for testing special portable A and B batteries. Indispensable for portable sets. Wt. 1 lb.

B6260. Storage Battery Tester.....59c
B6261. 0-35 Amps. For Dry Cells.....45c
B6262. 0-50 Volts. "B" Tester.....45c
B6263. Combination 0-35 Amp. and 0-50 Volts. NET.....68c

PORTABLE BATTERY TESTERS

B6284. 0-50 Volts, 0-2 Volts.....\$1.47
B6264. 0-100 Volts, 0-2 Volts.....1.62
B6285. 0-150 Volts, 0-2 Volts.....1.62
B6286. 0-150 Volts, 0-10 Volts.....1.76



KING COLE CHARGING RESISTOR

Resistance unit for charging any 6 volt radio or auto storage battery from 32 volt lighting systems. Maintains uniform charging rate and does not injure batteries. Saves time and expense of hauling batteries to town. B6228. List, \$2.50. NET. \$1.47

POPULAR HOMCHARGERS

These chargers are famous for use in the home or radio service shop. They are attractive in design and sturdily constructed. All models are for operation on 115-volt, 50-60 cycle current, operating without generating radio interference. The 5 to 3 ampere model is used to keep radio and auto batteries fully charged. May be used in the home, garage, or mounted under hood of cars, directly on the steering post with mounting bracket supplied. Shpg. wt., 8 lbs.

B10040. 5-3 amp. Booster. NET. \$4.41

B10041. 6 amp. model for the radio shop. For recharging dead batteries. Shpg. wt., 11 lbs. NET. \$7.35

B10037. 10 amp. garage type. For recharging dead batteries quickly yet safely. Has automatic tapering feature. With meter to indicate charging rate. Shpg. wt., 15 lbs. NET. \$11.47

GENUINE G. E. TUNGAR TYPE

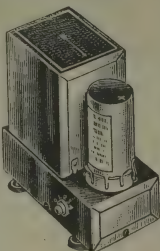
High-grade 5 amp. unit for charging any 6 volt storage battery from 110V, 60 cycle A.C. line. Famous General Electric quality construction. Delivers full 5 ampere charge to keep battery fully charged; automatic tapering feature prevents overcharging. Supplied with steering post attachment, A.C. cord, charger cord, tungar bulb, and full instructions. For 110 Volts, 60 cycle A.C. Shpg. wt., 12 lbs. One of the finest chargers made.

B10043. NET. \$10.29



MALLORY VIBRAPACKS

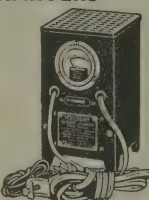
Inexpensive, dependable source of power for portable radio receivers and transmitters, P.A., etc. Vibrator type units; operate from 6-volt storage battery. Will supply up to 100 M.A. Models 551, 552, 553, 554, are self-rectifying tube rectifiers are supplied with all other models. Less Filter. *Special dual packs for high output. VP-555 supplies 200 M.A. VP-557 supplies 150 M.A. VP-556 operates on 12.6 volts at 100 M.A. *VP-F558 operates on 32 volts at 100 M.A. The 754-1 Relay is designed for controlling any single unit Vibrapack. VP-223 filter is for use with all single-unit Vibrapacks. Avge. shpg. wt., 10 lbs.



No.	Type	Output Voltage	EACH
B11996	VP-551	125-150-175-200	\$ 8.82
B11997	VP-552	225-250-275-300	10.88
B11998	VP-553	125-150-175-200	9.70
B11999	VP-554	225-250-275-300	11.76
B12001*	VP-555	300.....	22.05
B12002*	VP-557	400.....	22.05
B12000†	VP-G556	225-250-275-300	11.76
B12003†	VP-F558	225-250-275-300	11.76
B12004	754-1	Relay for Vibrapacks	.50
B12005	VF-223	Single Unit Filter	4.41

MALLORY CHARGERS

Black wrinkle-finished case. Dry disc type rectifier. The meter on the front panel indicates battery is being charged. Output, 6 to 4 amps. Special oversize transformer provides taper charging. Operates automatically regardless of the battery's condition. Equipped with new thermal bi-metallic circuit breaker —no fuses are used. 7 1/2 x 4 1/2 x 4 3/4. Shpg. wt., 8 lbs. For 110-115 V., 50-60 cycles. B11994. No. 5535B. NET. \$7.52



No. 3C BATTERY BOOSTER

Designed to meet the need of present day car owners. Added equipment on your car tends to drag down your battery. Plug this Booster into your car for a few nights a week, and do away with starting difficulties. Output, 4 to 2 amps. Special transformer regulates output to take care of variations in battery condition and line voltage. 6 3/4 x 4 3/4 x 3 3/4. Shpg. wt., 5 lbs. For 110-115 V., 50-60 cycles. B11995. NET. \$5.19

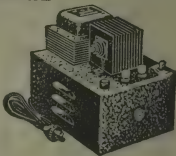
LEADER HYDROMETER

Accurate, well-made hydrometer for testing storage batteries. Has beaded float. Bulb is of live, resilient rubber. Shpg. wt., 1 lb. B3971. NET. 24c



STANCOR POWER PACKS ECONOMY MODEL

Excellent for auto radio sales demonstration and service test work. May also be used as a battery charger. Delivers 7 volts DC at 6 amps. on continuous duty or 5.4 volts at 12 amps. intermittently. With 6 ft. cord and plug, line switch, heavy duty output terminals, fuse, and pilot light. Size: 8 x 6 1/4 x 7 1/4. For 110 V., 60 cycles. Shpg. wt., 18 lbs. B10149. NET. \$13.67

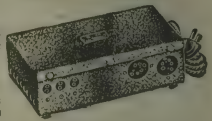


SUPER MODEL

Has same application as above, but delivers 12 1/2 amps. at 5-7 1/2 volts, DC, and is equipped with meter. For 110 volts, 60 cycle A.C. Shipping wt., 26 lbs. B10135. NET. \$19.55

"PORTABLE RADIO" MODEL

For operating any 1.4 (or 1.5) volt midjet or portable from 115 volt, 50-60 cycle current. Entirely eliminates batteries. Delivers 1.4V. "A" at 800 MA.; 90V. "B" at 18 MA. Fits into battery compartments of almost every portable. Overall size only 6 1/4 x 3 1/4 x 7 3/4. Has sockets for every type battery plug. 4 lbs. B10136. NET. \$5.85



2-VOLT FARM PACK

An excellent unit for use with receivers having 4, 5, 6, or 7 tubes. Delivers 2V. "A" at 480 MA.; 90 V. "B" at 20 MA. Size: 8 1/4 x 4 1/4 x 2 1/4. For 110 V. AC. Wt., 6 lbs. B10137. NET. \$6.44

AC-DC MODEL

Similar to B10136. above. Deliver 1.4 V. "A" at 300 MA.; 90 V. "B" at 18 MA. from 110 V. AC or DC. Size, 6 1/4 x 4 1/4 x 1 1/4. Includes 3-3525GT tubes 3 lbs. B10138. NET. \$5.26

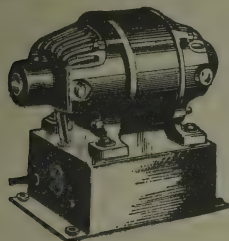
RADIART PAK FOR ELECTRIC SHAVERS

Double the utility of your Electric Shaver! Shaver-Pak operates your 110 Volt Shaver from any 6 V. DC or 32V. DC source. For use in cars, trailers, boats, trains, or rural areas. Shpg. wt., 5 lbs. B9158. Type S-6a. Portable. For 6 volts. With 2 1/2 ft. cord and plug. B9159. Type S-6b. For 6 volts. With permanent mounting bracket and 2 1/2 ft. cord. B9160. Type S-32a. Portable. For 32 volts. With 6 ft. cord and plug. NET EACH. \$4.09



CONVERTERS • POWER PACKS

FAMOUS JANETTE ROTARY CONVERTERS



WITH BUILT-IN RADIO FILTERS

Converts D.C. to A.C. to permit the operation of A.C. radio sets, sound systems, and other devices and appliances from 6 volt storage batteries, 32 volt light plants or 110 volt D.C. lines. Compact, dynamically balanced, ruggedly designed, and built for long life. Efficient filter assures quiet radio reception.

115 VOLTS DC TO 110 VOLTS 60 CYCLES AC

Stock No.	Out put Watts	In-put Amps.	Shpg. Wt.	YOUR PRICE
B16200	110	1.9	38 lbs.	\$ 26.90
B16201	150	2.4	38 lbs.	29.69
B16202	225	3.0	40 lbs.	34.54
B16203	300	4.0	61 lbs.	41.75
B16204	500	6.1	72 lbs.	54.98
B16205	750	8.5	95 lbs.	81.88
B16206	1000	11.0	130 lbs.	101.58

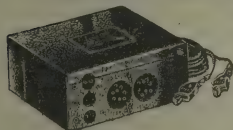
32 VOLTS DC TO 110 VOLTS 60 CYCLES AC

Stock No.	Out put Watts	In-put Amps.	Shpg. Wt.	YOUR PRICE
B16208	110	6.5	38 lbs.	\$26.90
B16209	150	8.5	38 lbs.	29.69
B16210	225	11.5	40 lbs.	34.54
B16211	300	15.0	61 lbs.	41.75
B16212	500	18.0	72 lbs.	54.98
B16213	650	27.0	95 lbs.	81.88

6 V. DC TO 110 V. 60 CYCLES AC

Stock No.	Out put Watts	In-put Amps.	Shpg. Wt.	YOUR PRICE
B16215	40	15.0	38 lbs.	\$33.37
B16216	60	24.0	38 lbs.	41.75

ELECTRO A-B ELIMINATORS



Replaces batteries in battery-operated sets including portables. Eliminator is turned on and off automatically by switch of radio receiver.

FROM 6 VOLT DC INPUT

B10696. Model Q. 1.4 Vibro Unit. Provides 90 V. "B" at 16 ma. and 1.4 V. "A." Drain 9 amp. $5\frac{1}{2} \times 5 \times 2\frac{1}{2}$ ". Shpg. $\frac{3}{4}$ lbs. **NET...\$7.35**

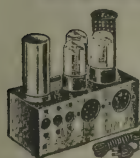
B10695. Model J. 1.4-2 Volt Unit. For larger sets. Supplies "B" of 45, 67, 90, 135, 180 V. at 40 ma. Drain, $2\frac{1}{4}$ amps. $5\frac{1}{4} \times 6\frac{1}{2} \times 8\frac{1}{2}$ ". Wt., 11 lbs. **NET...\$12.69**

FROM 110 VOLT AC INPUT

B10697. Model E. 1.4-3 Volt Type. "A" from 10 to 3 volts. "B" as Mod. J, at 50 ma. 1 amp. fl. With meter. $6\frac{1}{2} \times 6\frac{1}{2} \times 1\frac{1}{2}$ ". Shpg. wt., 16 $\frac{1}{2}$ lbs. **NET...\$14.65**

B10698. Model P. 1.4 Volt Unit. Midget set, $2\frac{1}{2} \times 3\frac{1}{2} \times 6\frac{1}{2}$ ". 90 V. "B" at $\frac{1}{2}$ amp. 20 ma. and 1.4 V. "A." **NET...\$5.85**

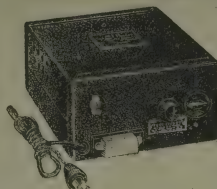
AC-DC BATTERY ELIMINATOR FOR PORTABLE RADIOS



Converts battery sets to all-electric types. Reliable and quiet power supply that replaces "A" and "B" batteries in portable or home-type 1 $\frac{1}{2}$ volt radios. Small enough to fit battery compartment. Size $6\frac{1}{2} \times 5\frac{1}{2} \times 2\frac{1}{2}$ ". Plugs into any 105 to 125 volt DC or 60 cycle AC outlet. Sockets at unit and "Universal" harness for all battery connections. Output is 90 volts of "B" at 18 ma., and 1.4 volts of "A." Power to operate 4, 5, or 6 tube receivers. Shpg. wt., 2 lbs.

B10699. NET...\$5.26

ATR INVERTERS—DC TO AC



It is now possible to obtain 110 volt 60 cycle A.C. from 6 or 12 volt batteries, 32 volt plants, or 110 volt D.C. systems. These inverters are designed especially for operating electric radios, P. A. systems, fans, motors, etc.

Plug-in vibrator has ten $\frac{1}{4}$ " diameter contacts which assure long life and reliable service. Features include: 4-point voltage regulator, fuse protection, on-off switch, metal case, etc. Supplied complete with filter which eliminates "ripple" and "hash," thus assuring quiet performance. Size approx.: $7\frac{1}{2} \times 8\frac{1}{2} \times 4\frac{1}{2}$ ".

RADIO TYPE WITH FILTER

Stock No.	Input Volts	Watts Cont.	Inter.	NET
B12072	6	75	100	\$14.08
B12073	12	100	125	14.08
B12074	32	100	150	15.26
B12075*	32	150	200	20.58
B12076	110	150	250	15.26
B12077*	110	225	325	20.58
B12078*	110	350	500	24.99

*Shpg. wt., 25 lbs.; all others, 17 lbs.

ATR MIDGET PHONOGRAPH INVERTERS



Model PCP. For operation of 110-volt AC 60-cycle phonograph motors, AC razors, and similar AC devices from 110 volts DC. Rating, 15 watts. Easily installed in phono cabinet or externally. Midget size, $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". With cord set and outlet receptacle. Shpg. wt., 2 lbs.

B12080. NET...\$3.82

B12081. Model PCP-F. As above with RF noise suppressor. For AC record players principally. **NET...\$4.09**

B12082. Model PCP-R. Like Model PCP-F but with leads. For AC-DC pho-no-radios with AC motors. **NET...\$3.82**

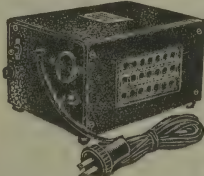
ATR "B" BATTERY ELIMINATOR FOR PORTABLES



Eliminates expensive "B" batteries in operation of portable sets. Operates from five No. 2 flashlight cells or storage battery in car and delivers 90 volts of "B" power at 10 milliamperes—enough for most portable sets. Cells easily obtainable for replacement. (See page 68.) Eliminator consists of vibrator-operated "B" unit and a case for flashlight cells. Unit measures $5\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ ". Flashlight case, $5\frac{1}{2} \times 4\frac{1}{2} \times 1\frac{1}{2}$ ". Battery drain is 0.2 ampere. Shpg. wt., 4 lbs. Less cells.

B12088. NET...\$5.10

ELECTRONIC CONVERTERS

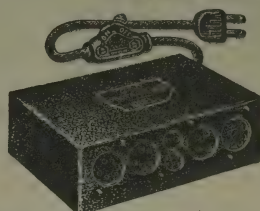


To permit operation of AC-operated appliances from DC. Expands usefulness of amplifiers, radio sets, test equipment, motors, fans, and similar devices. Ruggedly constructed for long life and dependability. 85% efficiency at full load. Size, $8\frac{3}{4} \times 6\frac{1}{4} \times 4\frac{1}{2}$ ". except 110 volt type which measures $10\frac{1}{2} \times 8\frac{3}{4} \times 6$ ". Avg. wt., 15 lbs.

Cat. No.	Volts	Input Amps	Output Volts	Watts	NET
B10141	6	14.7	110	75	\$19.40
B10142	12	10	110	100	19.40
B10143	32	3.7	110	100	15.88
B10144	110	1.6	110	150	22.64

NOTE: We can supply other Electronic Converters. Give requirements for prompt quotations covering the types you need.

POPULAR GENERAL PORTA-POWER UNITS



PLAY BATTERY SETS FROM AC LINE

STANDARD MODEL U. For 1.4 or 1.5 V. midget or portable from 110-120 volt, 50-60 cycle current. Eliminates batteries. For use with sets having up to five tubes. Fits into battery compartment of almost every portable. Overall size, only $2\frac{1}{2} \times 3\frac{1}{2} \times 6$ ". Simple to connect. Has sockets for every type battery plug. Insert battery plugs into Porta-Power and radio is ready for operation. Has sulfanide rectifier for "A" current; type 6PSGT tube for "B" current. Provides 1.5 V. "A" at 200 ma.; 90 V. "B" at 15 ma. With 6' rubber cord, plug, and "on-off" switch. Shpg. wt., 4 lbs.

B9168. NET...\$4.41

HEAVY-DUTY MODEL G

More rugged unit than model U described above. For 4, 5, and 6 tube home and portable receivers. Recommended for service shop, and demonstration work. Overall size: $3\frac{3}{4} \times 6\frac{1}{4} \times 4\frac{1}{2}$ ". "A" voltage is supplied by sulfanide rectifier; "B" voltage supplied by type 6PSGT tube. Shpg. wt., 5 lbs.

B9169. NET...\$5.58

FARM-TYPE MODEL L

For 2, 2.5, or 3-volt radios, having from 4 to 8 tubes. Eliminates all "A," "B," and "C" batteries. Operates from 110-120 V., 50-60 cycle AC. Delivers: 67.5, 90, 112.5, and 135 V. of "B," from 1.5 to 22.5 adjustable "C." Split "C," obtained from external resistors. Overall size, $6\frac{1}{2} \times 4 \times 5\frac{1}{2}$ ". Supplied with instructions, 6 ft. cord, plug, and "on-off" switch. High resistance voltmeter must be used for adjusting voltages. Shpg. wt., 6 lbs.

B9170. NET...\$5.85

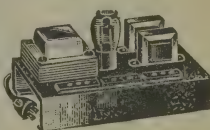
6-VOLT MODEL P

Permits operation of 6-volt 4 to 10 tube sets directly from 110-120 volts, 50-60 cycles AC. Delivers two separate 6 V. outputs, at 1.5 amps. each. May be connected in series for 12 V., or in parallel for 3 amps. Exceptionally quiet, hum-free operation. Size: $3\frac{3}{4} \times 5\frac{1}{2} \times 6\frac{1}{2}$ ". Shpg. wt., 8 lbs.

B9171. NET...\$8.20

KNIGHT POWER PACKS

B9187. For Short Wave Receivers or small transmitters using 6.3 volt tubes. Delivers 300 volts of filtered DC at 65 ma. Has intermediate taps. Also supplies 6.3 volts C.T. at 1.5 amp. for filament. Requires type 80 rectifier tube. For 115 V., 60 cycle AC. Less tube. Wt., 8 lbs.



B9190. Same as above except has filament winding at 3 amps. for 2.5 volt tubes. Shpg. wt., 8 lbs. **EACH...\$5.10**

B9188. As above, but supplies 300 volts DC untapped at 65 ma. Has winding of 6.3 volts at 1.5 amperes. Less type 80 tube. Weight, 9 lbs. **NET...\$4.25**

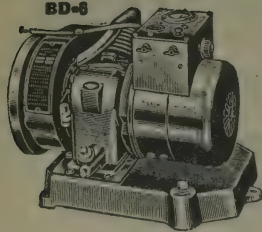
B9196. A power supply for X-mitters using 3 or 4—6L6 tubes. 450 V. DC at 150 ma. and 6.3 V. C.T. at 5 A. Steel chassis, black crackle finish. Operates on 115 V., 60 cycles. Requires type 82 tube. Shpg. wt., 9 lbs. Less tube. **NET...\$7.95**

B9198. For Short Wave Receivers. Hum-free. Substantially built. Delivers 250 V. DC at 40 ma. Has intermediate voltage taps. $2\frac{1}{2}$ volts C.T. at 5 amps. for filaments. Size, $7\frac{1}{2} \times 4\frac{1}{2} \times 1\frac{1}{2}$ inches. Shpg. wt., 9 lbs. Less the 80 tube.

B9189. Same as B9198, except has filament winding for 6.3 volt tubes at 2. **\$4.95**

GAS ENGINE PLANTS & WINDCHARGERS

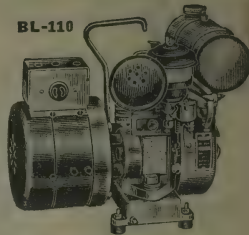
BD-6



NEW PIONEER "BLUE DIAMOND" 110 VOLT A. C. GAS-ELECTRIC PLANTS

Efficient dual-purpose Electric Power Plants for supplying AC and battery-charging DC. AC plants deliver 110 volts, 60 cycles for steady light, the same as supplied by power companies. Offer all the conveniences of 110 V. AC for areas where power line electricity is not available. Also provide a charging system for 6-volt storage batteries. The engine is a 4-cycle air-cooled unit with built-in mechanical governor to maintain constant speed of 1800 RPM. Generator is 4-pole type encased in rugged steel shell, connected directly to the engine crank shaft. No coupling is necessary. All parts are easily accessible by merely removing the end cover. All models listed have push-button starting as well as auxiliary rope-pull starter. Built-in cast-iron fuel tank holds 1 gallon. Will operate on low octane gas. Finest quality parts furnish exceptionally efficient, long-lived service. Pioneer "Blue-Diamond" plants will meet all requirements for AC service.

BL-110



300 WATT A.C.—200 WATT D.C.

B16180. Type BD6. Supplies 300 Watts AC, and 200 Watts DC to charge any 6-volt wet-cell battery. Less filter and 6 volt starting batt. Gallon of fuel runs plant for 12 to 16 hrs. Wt., 116 lbs. **\$58.35**

B16181. Type BDR6. As BD6 above but with remote-control push-button starting and stopping and with ammeter and voltmeter in control box. Shpg. wt., 120 lbs. **\$78.70**

RADIO FILTERS

B15995. For 300 watt plant. Prevents power line noises. **NET \$4.41**

B15996. For 600 and 1000 watt plants. **NET \$11.25**

1000 WATT A.C. MODEL

B16182. Model BA-100. Heavy-duty straight AC power generator. Develops 1000 Watts at 110 V. AC. For use in electrifying farms, resorts, camps, boats, etc. *Air-cooled, push-button starting motor. Engine delivers 2 H.P. to generator. 1 gallon. **\$194.60**

600 WATT A.C. MODEL

B16183. Model BA-60. A straight AC generator. Supplies 110 Volts at 600 Watts maximum capacity. Engine delivers 1 H.P. to generator. 1 gallon runs unit 7 hours. *Self-starting. 20 1/2" x 18 1/4" x 20". **\$134.60**

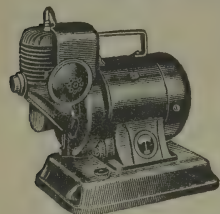
*Requires 12 volt battery, not supplied. Standard equipment includes rope-pull starter.

400 WATT A.C. PORTABLE

B16186. Model BL-110. A full-sized gas engine-generator weighing only 75 lbs. Built for easy portability as well as long-lived dependable service. Supplies 110 V. 60 cycle AC for operating radios, lighting systems, etc. Furnishes 400 watts in continuous operation, up to 450 watts in intermittent operation. Also supplies 200 watts DC for charging 6-volt storage batteries. Employs 4-cycle, L-head, air-cooled engine, developing 8/10 H.P. at 2600 RPM. Runs 8-10 hours at full load on one gallon of gasoline. Features include: float-feed carburetor with air-cleaner; mechanical governor; aluminum cylinder head, connecting rod, and piston; enclosed high-tension magneto. Fuel tank holds 2 qts. Size: 18"x11 1/2"x15". Shpg. wt., 95 lbs. **\$69.75**

WE CAN SUPPLY Pioneer gas engine generators and power plants for 6, 12, 32, and 110 volts, and up to 5000 watts. Write for attractive prices.

SEMI-DIESEL ENGINE BATTERY CHARGER



Here's the greatest development in farm lighting equipment in years. This new plant is equipped with a powerful Semi-Diesel engine which burns gasoline, kerosene, or fuel oil. It is economical to run. One filling of the three-gallon tank with even the cheapest fuel is sufficient to operate this unit for 6 to 8 hours. It is skillfully engineered: only three moving parts—nothing to get out of order. It has latest features: push-button self-starter and fully enclosed engine and generator. Automatic cut-out prevents battery discharge. No carburetor is used. Atomization occurs in separate mixing chamber to assure quick starting. Sturdily constructed of quality parts.

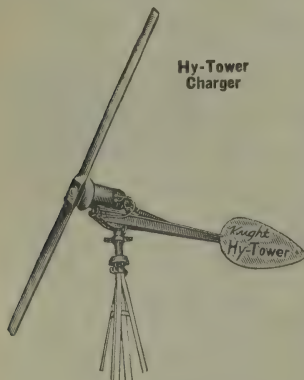
6-VOLT 240-WATT TYPE

Develops up to 240 watts of 6-volt DC. Charges 6-volt batteries used for operating radio sets, farm lighting systems, etc. It is ideal for all power requirements in unired areas, and on boats, trailers, etc. Automatically lubricated. Cannot run out of oil. Smooth-running features assure long life and efficient operation with the hardest use. Has meter to indicate battery charging rate. Equipped with 2 1/2" "V" pulley for driving power saws, separators, and similar equipment. Has handy carrying handle. Size: 17 1/2" x 12" x 16 1/4" high. Less battery. Shipping weight, 75 lbs.

B16185. NET \$35.25

- Only three moving parts — nothing to get out of order.
- Minimum operating cost — operates on cheapest fuel.
- An ideal plant for farm lighting.

KNIGHT WINDCHARGERS HY-TOWER CHARGER



Get FREE POWER from the wind with this new de luxe Hy-Tower Charger. Costs nothing to operate; delivers up to 16-20 amperes of direct 6 volt current. Charges 6 volt storage batteries to supply current for radios, lighting service, etc. Features: weatherproofed, balanced propeller; automatic tilt-back regulator; heavy-duty generator which cuts in at 370 R.P.M.; automatic turntable brake; throw-out collar for easy starting or stopping. Supplied with 10-foot all-steel tower, accessories, and instructions. (See illustration at left.) Shpg. wt., 75 lbs.

B16170. Complete Hy-Tower Windcharger. List Price, \$29.50. YOUR NET PRICE \$19.75

Your price when purchased with any KNIGHT Radio Set, only \$17.50

WINDMILL SIDE-TOWER CHARGER

Ideal for mounting on a windmill tower or like structure. Has all features as described above; automatic tilt-back regulator; heavy-duty generator; automatic turntable brake, etc. Supplied with accessories for mounting off side of any windmill tower. Shpg. wt., 75 lbs.

F. O. B. Clarinda, Iowa. B16171. NET \$19.75

SKY-SCRAPER CHARGER

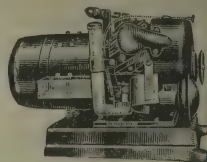
"The higher the tower, the greater the power." Has same charger head as the Hy-Tower unit described above, but is supplied complete with a 42 1/2 foot all steel Sky-Scraper tower. Captures every gust of wind, even in areas of low wind velocity, affording exceptionally reliable battery-charging. Shpg. wt., 215 lbs.

F. O. B. Clarinda, Iowa. B16172. NET \$35.75

SKY-SCRAPER TOWER ONLY

The 42 1/2-foot all-steel Sky-Scraper tower is offered separately for Windcharger installations. Also ideal for use as an antenna mast for Amateur stations. Channel construction makes this mast unusually sturdy. Very easy to assemble. Supplied with guy wires and all necessary hardware. Shipped unassembled. Shpg. wt., 154 lbs. **F. O. B. Clarinda, Ia. B16173. NET \$17.50**

KATO A.C. PLANTS



QUIETLIGHT MODEL 19A

A compact, efficient gas-engine generator for home lighting use. Designed also for home trailers, summer cottages, sound trucks, farms, etc. Will give many years of trouble-free service. This unit develops 350 watts of 110-volt, 60-cycle current and 200 watts of 6-volt DC for battery charging. Equipped with four-cycle air-cooled 3/4 h.p. Johnson Engine and positive mechanical governor. Engine develops 1800 RPM. Runs 12 hours on one gallon of gas. Ignition is shielded, and generator is filtered. Supplied complete with start and stop push button, battery cables, DC ammeter, charge control resistor, cutout; cast aluminum base is 1-gallon gas tank. With handy carrying handle, built-in filter, etc. Oil capacity is one pint. Self-starting if 6-volt storage battery is used (not supplied). Wt., 125 lbs. **\$71.25**

B16175. NET \$71.25

B16177. 500 Watts. Shpg. wt., 133 lbs. NET \$112.50

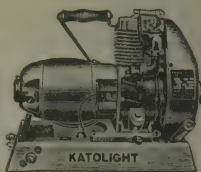
B16178. 1000 Watts. Shpg. wt., 295 lbs. NET \$217.50

JUNIOR MODEL

Model JRA3. Designed for operating radio receivers, transmitters, and other AC equipment. A big hit with radio "hams." Supplies 350 watts of 110-volt, 60-cycle current. Runs 10 hours on a gallon of gas; uses 2 oz. oil for each 10 hours. Powered with a 3/4 h.p. single cylinder, four cycle, air-cooled engine. Float feed Zenith Carburetor. Will charge 6-volt battery up to 10 amps. Generator filtered and shielded. With carrying handles, muffler, and instruction manual. Less battery. Shpg. wt., 80 lbs. **\$67.20**

B16176. NET \$67.20

NOTE: Add \$5.88 extra to above prices of all Kato plants to permit semi-diesel operation. Will start on gasoline and run on kerosene.





Knight for 1941!

A NEW LIGHT ON PUBLIC ADDRESS!

The handsome illuminated control panels of the 1941 **KNIGHT** Amplifiers are a fitting symbol for this quality line. Back of them is a new concept of performance, new and exclusive features, new beauty and new value. Here, truly, is a new light on Public Address!

Proved In The Field. **KNIGHT** Public Address quality is no accident. It is grounded on research, on knowledge. It is designed to standards that have been "proved in the field"—not down to a price. **KNIGHT** Sound Equipment is better because it's designed and built to be better and to serve better.

We Guarantee Our P.A. Ratings. We guarantee that every **KNIGHT** Amplifier is truly and honestly rated—not by some arbitrary type of rating standard—but by actual, accurate measurement in the laboratory. You protect yourself when you buy **KNIGHT**—the honestly-rated Sound Equipment—backed by the integrity of **ALLIED** (a pioneer in the Sound field)—proved by thousands of satisfied **KNIGHT** users.

The Truth About Tubes. Each tube used in a **KNIGHT** Amplifier is employed at the proper rating to give maximum usable power with minimum audible distortion. Contrary to the mistaken notion of some, the use of a large number of tubes doesn't necessarily mean more power. **KNIGHT** engineering has proved that it isn't the number of tubes but *how* they are used that counts. That's the *real* truth about tubes! And, through the elimination of unessential tubes, **KNIGHT** engineers have been able to give you new and useful features at *no increase in cost!*

More P.A. For Your Money. Dollar for dollar, watt for watt, you get more for your P.A. money in **KNIGHT**—more performance, more features, more dependability, more beauty. So certain are we that **KNIGHT** Sound Equipment offers you the best for less, that we invite you to try any **KNIGHT** Sound Equipment under our satisfaction-or-your-money-back guarantee (see below). Prove to yourself that your Sound Dollar goes further when you buy **KNIGHT**—the *dependable* Sound Equipment!

Only the rich experience and background of one of America's finest and oldest P.A. and radio builders—The Rauland Corporation—(designers and builders to our specifications of **KNIGHT** amplifiers—engineers entrusted with the design and construction of the most critical military and aircraft radio equipment)—could bring to you at *no increase in price* such outstanding features as: Built-in Phono Top; Safesed Speakers; built-in V.I. Meter and Monitor Speaker; Dual Output Channels; Dual Power Drivers; Multi-stage Inverse Feedback; Silencer Input Jacks; Speaker Matching Selectors; Tapped and Fused AC Input; Robot Voltage Selection; Remote Control; Master Volume Controls; Multi-Channel Input Circuits; Headphone Monitor Jacks; 2-Contact Output Sockets; and many others, fully described on the pages that follow.

MONEY-BACK GUARANTEE AND 15-DAY TRIAL OFFER

We guarantee absolute satisfaction or your money back. Order any Knight Sound System you want, buying for Cash or on Time Payments, and test it out for yourself, under your own operating conditions. You be the judge yourself.

Compare the features, compare the quality, compare the actual performance. If, after 15 days, your Knight Sound System isn't everything we claim it to be, if it doesn't prove to be the biggest P.A. dollar's worth on the market for power, for tone, for all-around results after you've tried it—send it back, and we'll refund every penny of the purchase price, less only transportation charges.

Remember, too, that every Knight Sound System is E.R.P.I. Licensed, and is also covered by the regular Radio Manufacturers' Association guarantee for extra assurance.

—ALLIED RADIO CORPORATION

E. R. P. I. LICENSED

All Knight Sound Systems are licensed by Electrical Research Products, Inc., under patents of Western Electric and A. T. & T.

THERE'S A QUALITY Knight PUBLIC

Whether yours is the need for amplifying the faintest tick of a delicate watch, or to amplify the vast tonal swell of a mighty thousand-voiced choir, you will find the proper **KNIGHT Sound System** to serve your purpose on one of the following pages.

The 1941 **KNIGHT Sound Systems** are designed to cover 1001 applications. It is not a line that just "happened" that way. It represents the expenditure of thousands of dollars and months of painstaking effort in long and careful research and in advanced engineering. Yes, we *planned* this line. We asked thousands of P.A. users what their needs were; we found out how other thousands who bought **KNIGHT Sound Systems**, used them. And out of this sure, definite knowledge comes this new **KNIGHT 1941 Public Address Line**—the most complete and versatile possible—"designed for application."

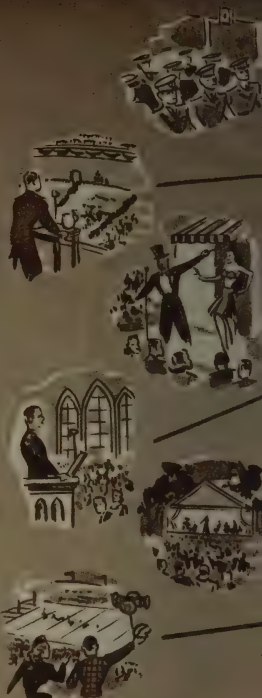
Sound Equipment is today a definite part of our life. Its applications run into the thousands—everywhere, it serves to enrich and aid our lives. It has become a modern necessity. It plays a vital part in the educational process in Schools; it is a new boon for Churches, an indispensable feature of modern Institutions such as Hospitals and Hotels, a magnificent asset in the entertainment world, and an increasingly important tool in the field of general business. These are only a very few of the functions answered by **KNIGHT Sound Systems**.

You may have an entirely different application requirement. But whatever it is, *there is a KNIGHT Sound System to serve you perfectly!* The chart on the right and the descriptions on the following pages will help you choose the Sound Equipment you need. The list of satisfied **KNIGHT** users below, (just a fraction of the total) will indicate in but a small way how and where **KNIGHT Sound Equipment** is being used, day-in and day-out. Whatever your Public Address needs, you can count on **KNIGHT!** Remember, too, that the knowledge and experience of our Engineering staff is at your command always.



AS EASY TO OPERATE AS A RADIO SET

Anyone who can operate an ordinary radio can operate any **Knight Sound System** with perfect success. Everything is designed for quick connection; microphones and speakers have plugs attached; complete easy-to-understand instructions are furnished. You don't have to be an expert to get proper P.A. results with **Knight Sound Equipment!**



BUY *Knight* P.A. ON EASY TIME PAYMENTS!

USE OUR PRACTICAL, ATTRACTIVE PLAN

Don't lose big profits in P.A. for lack of Cash! You can get any of the profit-building **Knight P.A. Equipment** you need—**NOW**—and make it earn for you while it pays for itself. You can buy **Knight Public Address Equipment** easily and conveniently on our attractive new **Monthly Payment Terms**, if your order comes to \$40.00 or more. You'll find our Time Payment Plan extremely attractive. Complete explanation appears below; see our table of terms also. It will pay you to make your Public Address purchases from **ALLIED**. You get the finest equipment in the field at the lowest prices—and, in addition, you can, if you wish, buy it on the easiest terms you can get anywhere. Select the **Knight Public Address Equipment** you want now, and order, enclosing Down Payment, for quick service—or write for full details.

SIMPLIFIED TABLE OF TERMS			
If Cash Price of Order Amounts to	Minimum Down Payment is 10% of Cash Price	To Find Carrying Charges	Monthly Payments 8 Months
\$ 40.00	\$ 4.00	Simply add 10% to unpaid balance. For example, if the balance is \$36.00, then the carrying charge is \$3.60 and the amount yet to be paid is \$36.00 + \$3.60 or \$39.60	\$ 4.95
60.00	6.00		7.43
80.00	8.00		9.90
100.00	10.00		12.38
120.00	12.00		14.85
150.00	15.00		18.57
175.00	17.50		21.66
200.00	20.00		24.75
225.00	22.50		27.85
250.00	25.00		30.94

SEND DEPOSIT WITH ORDER FOR SPEEDY SERVICE

Take eight months to pay. You pay just 10% down, and the balance in convenient monthly payments. Add 10% to the unpaid balance to cover carrying charges. Then divide by 8 to obtain the monthly payments required. Select the equipment you want, and send in your order with a 10% cash down payment, including your credit references. Credit investigation will be promptly handled and contract forms for your signature will be forwarded to you immediately afterward.

THOUSANDS OF PUBLIC ADDRESS

Amusements
 Albrecht Circuit
 Bob Crosby's Band
 Buckeye State Shows
 Fairbanks Ice Carnival
 Goodman Shows
 Greater Exp'n. Shows
 R. E. Griffiths Theatres
 Peerless Shows
 Riverview Park, Chgo.
 Six-O-Six Club, Chgo.
 Smith Chain Theatres
 Walmer Amusem't Co.

Broadcast Stations
 WDRC—Hartford
 WEW—St. Louis
 WGL—Fort Wayne
 WOWO—Fort Wayne
 WTAX—Springfield
 KGY—Olympia, Wash.
 KSN—San Francisco
 KTRH—Houston
 KWFT—Wichita Falls

C.C.C. Camps
 Co. 2921, Decuspo, Cal.
 Co. 2116, Colorado
 Co. 2618, Tuscola, Ill.
 Co. 362, Fredericksburg
 Co. 1921, Mt. Tamalpais
 Co. 2925, Wheeler, Cal.

Churches
 First Cong., Moline
 Grace Evang., Chicago
 Holy Ghost Rectory,
 Jackson, Miss.
 St. Anne's Chicago
 St. Christian Church,
 Euclid, Ohio

Governmental
 Chicago Park District
 Headquarters School,
 U.S. Air Corps
 Illinois Nat'l. Guard
 Michigan State Reform.
 Naval Governor, Guam
 Oklahoma State Reform.
 P. H. Fort Missoula
 River Forest, Ill.
 Police & Fire Depts.
 U. S. Marine Corps,
 Philippine Islands
 U. S. Signal Corps
 U. S. Treasury Dept.,
 San Juan, P.R.

KNIGHT—The Ideal P.A. Line. Yes, you'll find **KNIGHT** the line that's easy to choose. We tell you how in the chart on the next page and in our description of each system. And **KNIGHT** is easy to buy, too—on the most attractive terms you could ask for. There's no Public Address Equipment made that's easier to operate than **KNIGHT**, for perfect results always!

ADDRESS SYSTEM FOR EVERY PURPOSE

Applications	7 Watts (See p. 77)			14-18 Watts (See pages 76, 81)			20-35 Watts (See pp. 78, 80, 82, 84, 86, 89, 90)			50-75 Watts (See pages 85, 87)		
	Area sq. ft.	Spkr.	Baffle	Area sq. ft.	Spkr.	Baffle	Area sq. ft.	Spkr.	Baffle	Area sq. ft.	Spkr.	Baffle
Armories and Barracks.....	1000 to 2900	1-8'	Wall	2900 to 7200	2-12'	Wall	7200 to 14,000	2-12'	Proj.	14,000 to 48,000	2-4 Knight Trumpets	
Auditoriums & Banquet Halls.....	1000 to 4000	1-8'	Wall	4000 to 7800	2-12'	Wall	7800 to 30,000	2-12'	Wall	30,000 to 118,000	4-12'	Proj.
Ballrooms & Dance Halls...	1000 to 2900	1-8'	Wall	2900 to 6600	2-12'	Wall	6600 to 14,000	2-12'	Proj.	14,000 to 48,000	4-12'	Proj.
Carnivals & Fairs.....				1000 to 3600	2-12'	Proj.	3600 to 8000	2-12'	Proj.	8000 to 60,000	2-4 Knight Trumpets	
Churches.....	1000 to 2900	1-8'	Wall	2900 to 7800	4-8'	Wall	7800 to 20,000	8-8'	Wall			
Factory Paving (Noisy).....	500 to 1150	1-8'	Proj.	1150 to 2400	2-12'	Proj.	2400 to 6500	2-4 12"	Proj.	6500 to 15,500	2 to 4 Knight Trumpets	
Funeral Parlors.....	500 to 1150	1-12'	Bass Reflex	1150 to 3000	1-12'	Bass Reflex	3000 to 6500	2-12'	Bass Reflex	6500 to 15,500	4-12'	Bass Reflex
Night Clubs & Taverns....	1000 to 2900	1-8'	Wall	2900 to 7200	2-12'	Wall	7200 to 14,000	2-12'	Wall			
Outdoor Adv. & Meetings...				1500 to 4800	2-12'	Proj.	4800 to 10,000	2-12'	Proj.	10,000 to 80,000	2-4 Knight Trumpets	
Roller Skating Rinks.....							2000 to 6000	2-4 12"	Proj.	6000 to 48,000	2-4 Knight Trumpets	
Stadiums, Athletic Fields, Race Tracks.....	Areas given are those of Grandstand or Bleachers.						3000 to 8000	2-12" | 2 Trumpets	Proj.	8000 to 60,000	4-6 Knight Trumpets	
Store & Office Bldgs., Classrooms...	1000 to 4000	1-8'	Wall	4000 to 7800	2-12'	Wall	7800 to 20,000	2-12'	Proj.	20,000 to 60,000	4-12'	Proj.

THIS CHART SHOWS YOU HOW TO CHOOSE THE SYSTEM YOU NEED

SATISFIED KNIGHT CUSTOMERS

Industry
American Airlines
American Business Inst.
American Can Co.
Auto. Tel. Exch. Ltd.
Carnegie-Illinois Steel
Container Corp. Am.
Cracker Jack Co.
Crane Company
Dayton Price Co., Ltd.
Dominion Power Co.
Iico Copper
International Harvester
International Milling
Michigan Limestone
Nitrate Corp.
Pacific Coast Borax Co.
Pennsylvania Ry.
Piggly Wiggly
Pure Oil Company
Quaker Oats Co.
The Kellogg Company
Tucson Gas & Power

Schools & Colleges
Arkansas St. Teachers
Bucknell University
Dayton Public Schools
Indiana University
Jackson, O. Schools
Nogales Schools
Northwestern Univ.
Ohio State University
Purdue University
University of Arkansas
University of Chicago
University of Michigan
Saskatchewan Univ.
Sheboygan High
University of Texas
Washington University
William and Mary

Overseas Users
A. Harbottle, VS6AO
Hong Kong, China
V. D. Fillipis,
Heliopolis, Egypt
Etablissements Ara,
Thessaloniki, Greece
M. Handi Al Chakhidas,
Baghdad, Iraq
Automatic Telephone,
Oomau, New Zealand
Tobis Portuguesa
S.A.R.L., Lisbon
And Hundreds More

HOW TO SELECT THE PROPER SOUND SYSTEM

You don't have to feel any hesitation about ordering the Public Address equipment you need. We've taken the mystery out of P.A. selection for you. If you read the simple facts we give below about P.A. components, and refer to our easy-to-understand chart above, you'll be able to choose the right Sound System for your needs.

A WORD ABOUT AMPLIFIERS. The amplifier is the heart of any sound system. It should therefore be selected with great care. You need know only three things about the selection of the proper amplifier: (1) The **usable** power output available; (2) Frequency response—the ability to reproduce the tonal range; (3) The degree of accommodation for mikes, phonos and speakers, and the type of control facilities. To determine how much power you need, refer to the chart above. Every well-designed amplifier delivers a certain amount of **usable** power, comparatively free from distortion. It will also deliver a larger (peak) output, but this is only useful on occasional passages. Make sure the amplifier you use has the right amount of **usable** power. With regard to frequency response, for average requirements, a tonal range of 70 to 7000 cycles per second is acceptable. Anything wider will give you better than average results. Your requirements will determine how many mikes, phonos and speakers, also the control facilities you will need. Make sure the amplifier you select provides for them.

A WORD ABOUT MICROPHONES. All the modern microphones we have are satisfactory for average use, and you don't have to worry too much about the type you pick. But there are some particular advantages in different types of mikes that you ought to know about. The most popular types at present are the Crystal, Dynamic and Velocity. Crystal and Dynamic types are ideal for picking up sounds from all directions where feedback (howling) is not a critical problem. The Dynamic type is somewhat more rugged than the Crystal and is better adapted for outdoor and portable work. Velocity mikes are directional types, picking up sound only in front and back and they are therefore suitable for use where feedback is encountered. (Special new Uni-directional Crystal and Dynamic Mikes—see full descriptions on page 101—are also excellent for this purpose).

ABOUT SPEAKERS AND BAFFLES. Just refer to the chart above for the recommended size and number of speakers you will need for any given installation. Generally it is better to use more than the minimum number of speakers specified to do the job, because you get better spread and coverage. The Chart also indicates proper baffle choice. Three types are generally used: (1) **Flat type**, for widest

sound spread; cases, wall baffles and boards are in this group; (2) **projector type**, for directing sound farther out along a narrower channel; (3) **trumpet type**, for focusing sound in a narrow far-reaching beam.

HOW TO USE THE CHART ABOVE

To find the **Knight Sound System** best suited for your needs you have only to follow these simple directions: (1) Measure the length and the width of the area to be covered. (2) Multiply these two figures to determine the total number of square feet. (3) Locate on the chart in the column headed "Applications" the use for which your system is intended. (4) Run your finger across until you reach the column including the square foot area obtained in Step 2. (5) The system you need is that indicated at the top of the appropriate column.

Example: You want a **Knight Sound System** for a ballroom measuring 100 feet long and 50 feet wide. This is a total of 5,000 square feet (100 x 500 = 5,000). Reference to the chart shows that you require a 14 or 15 watt system with 2-12" speakers in wall baffles. If location is unusually noisy, order the next larger system—the 20 watt unit shown in the next column to the right.

NOTE A. If you know how many persons will be present and do not wish to measure the area, allow about 6 square feet per person. This will give you a sufficiently accurate figure for proper coverage.

B. If your location includes a balcony, or if you wish to place extension speakers in adjacent rooms, add these areas to the main area for the total.

C. If your system is to cover a number of applications, choose the system required for the **largest area**. A larger system will easily cover smaller areas, but the reverse is not true.

D. If you wish to cover two applications simultaneously—e.g., school auditorium and the athletic field—first find the size of the system required to handle the auditorium alone; then find the size required for the field. Choose a system having a power output equivalent to the sum of both (or use two separate amplifiers).

ALLIED'S engineers are always ready to help you. If your requirements are specialized and are not covered by the chart, write to our Sound Engineering Division, giving complete details and (if possible) enclose a rough sketch. Competent advice and price quotations based on careful study of your needs, will reach you promptly.

Knight STANDARD 14 WATT SOUND SYSTEM

Lectures

Schools

Sales Meetings

Paging

Demonstration

Taverns

Orchestras

Rentals

E. R. P. I.
LICENSED

15 DAY TRIAL OFFER
See Page 73 for Details

\$16⁹⁵

OUTSTANDING FEATURES:

- Inverse Feedback
- Series Mixer
- 2 Input Channels
- Universal Input
- Safused Speakers
- Speaker Selector
- Bass-Treble Control
- Beam Power Output
- Optional Phono Top
- Dual Output Sockets
- Fused For Safety
- Illuminated Panel

14 Watt Amplifier
Less tubes and phono top

First! Exclusive Knight
features: (1) **Lighted, Slant-**
protected Instrument
panel; (2) new **Safused**
Speaker—protected against
overload. "Extra" features!

AMPLIFIER SPECIFICATIONS

Output: Full 14 watts usable power (18 watts peak); hum is inaudible (55 db. below rated output); **Output Impedance:** 4, 6, 8, 500 ohms on selector; **For PM Speakers:** no field current provided; **Input Channels:** Two, one for mike, one for phono, on individual controls; **Tone Control:** for bass and treble; **Gain:** on microphone, 125 db., on phono 75 db.; **Frequency Response:** 60-8000 CPS. (amplifier); **Tubes:** 1—6SJ7, 1—6SC7, 2—6V6G (Beam Power), 1—5Y3G; **Line Drain:** 75 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles AC; **Amplifier Size:** 16 $\frac{1}{2}$ " x 10 $\frac{1}{4}$ " x 9 $\frac{1}{8}$ ". E. R. P. I. Licensed.

Here's the Portable PA System we've designed to **your** specifications—at the price you want to pay! 1941 in design and features—just what you want. Portability—you just can't ask for greater convenience, for easier operation. Output—14 **usable** watts—packed into a trim Portable PA System that fills the bill for hundreds of applications. (Check chart on page 75 for versatile uses of this system.)

Sets Up in a Jiffy. The 14 Watt "Standard" is as easy to operate as an ordinary radio. You don't have to be an expert. It sets up in a few minutes because it's really designed for convenient portability. And there's nothing to add—nothing more to buy.

Inverse Feedback. Gives you greater output—better tone quality. You can work the system at higher output levels because distortion and hum are cut down to a minimum.

Takes Crystal, Dynamic or Velocity Mikes. The input channels with series mixing (each with separate control) take any high-impedance mike or phono pickup.

Optional Phono Top. Originated by Knight. You can buy the system with matched built-in phono top; has rim-drive 78 RPM motor, 9" turntable, Shure Crystal pickup, switch, arm-rest, needle cup. Say goodbye to trailing wires, extra phono cases, etc.

Universal Output. You can match additional PM Speakers of any make instantly by adjusting the special octal selector. (We recommend extra speakers listed below.) No guess-work; no figuring—just set where speakers sound best.

Bass-Treble Control. Gives you the tone emphasis you want, on both mike and phono. Helps cut down feedback. Turn knob to right for high notes, to left for low notes.

And These Plus Features. More for your money, and here's the proof: Grip-tite receptacle prevents accidental mike plug removal; Dual Output Receptacles—two-contact type—no special plugs needed; provide for use of extra speakers. Fuse—protects the amplifier; AC input is tapped for line voltage adjustment to safeguard output level.

Complete 14 Watt Portable System. Includes 1—Knight 14 Watt Amplifier, less phono top; 1—Shure Crystal Microphone with 25-foot cable, on desk stand; 12" Safused PM Speaker with 30-foot cable and plug; tube kit; complete instructions. All components fit in compact split-carrying case. 22 $\frac{1}{2}$ " x 19 $\frac{1}{4}$ " x 15". Weight complete is only 53 lbs. For 110 volts, 60 cycles AC. Less phono top. Shpg. wt., 63 lbs.
B16510. List Price, \$73.50. **NET PRICE**.....**\$36⁹⁵**

OPTIONAL EQUIPMENT FOR 14 WATT SYSTEMS

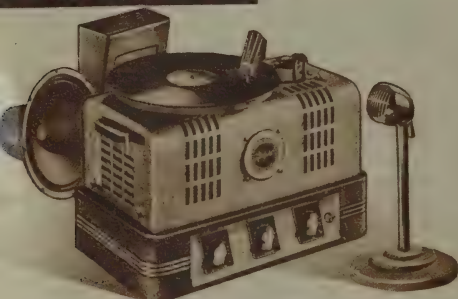
B16600. Phono Top for above, for 110V. 60 cycles. Shpg. wt., 11 lbs. **NET \$7.45**

B16607. Additional 12" PM Speaker with 30 foot cord and plug. **NET. ...\$4.65**

B16608. 12" PM Speaker in standard wall baffle, 30 foot cord and plug. **...\$6.45**

B16609. 12" PM Speaker in Steel-Aluminum baffle with mounting bracket 30 foot cord and plug. Shpg. wt., 20 lbs. **NET.....\$10.85**

NOTE: For Floor Stand (Fig. F) instead of Desk Stand, add \$2.50.



14 WATT ALL-PURPOSE SYSTEMS

With Wall Baffle. Includes: Knight 14 Watt amplifier with tubes (less phono top); Shure Crystal Mike with 25-foot cable, on desk stand; 12" PM Speaker in Standard Wall Baffle with 30-foot cable and plug. For 110 volts, 60 cycles, AC. Shpg. wt., 55 lbs.

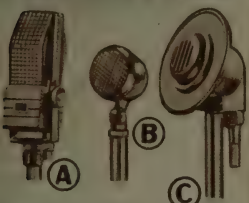
B16511. List Price, \$63.50. **NET.....\$31.90**

B16512. Same as above but without the wall baffle. Shpg. wt., 50 lbs. **NET.....\$29.95**

B16513. Same as B16512, but with 36" x 36" flat baffle added (Fig. E). Shpg. wt., 55 lbs. **NET PRICE.....\$31.90**

B16517. Same as B16512, but with Steel-Aluminum baffle and mounting bracket added (Fig. D). Shpg. wt., 60 lbs. **NET \$36.15**

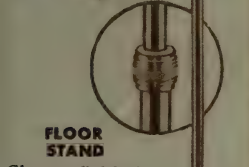
CHOICE OF ACCESSORIES



Choice of Mikes. In place of mikes shown with systems on these pages you can have your choice of **A—**Electro-Voice V-1 Velocity, **B—**Astatic T-3 Crystal, or **C—**Knight Electro-Voice 631 Dynamic, at an extra cost of \$3.50.



FLOOR STAND



Chrome-finished telescopic stem; adjustable from 35 to 68 inches. Can be had in place of desk stand at \$2.50 additional.



14 WATT AMPLIFIER

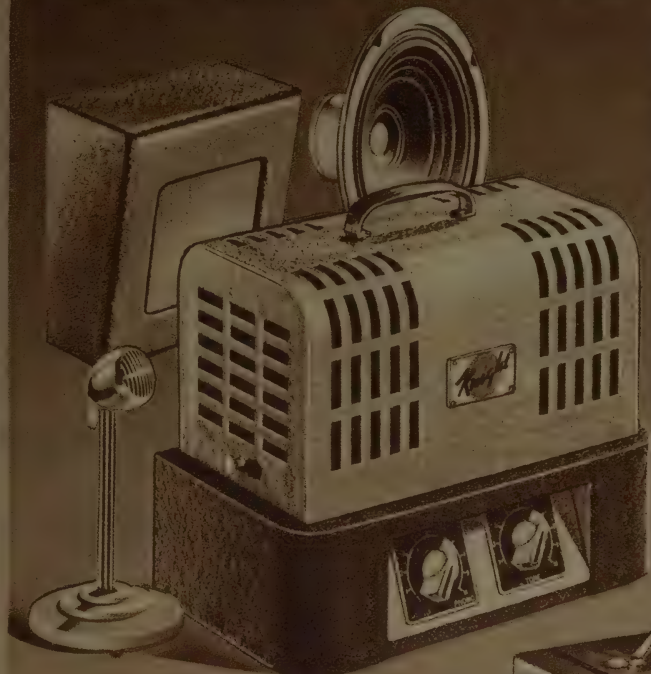
The quality amplifier described in the Knight 14 Watt System is available separately. Makes an ideal replacement for obsolete amplifiers. Illustration shows amplifier as supplied with plain top cover. (See page 76 for optional phono top.) Has all the fine features described at left. In streamlined two-tone grey iridescent finish, with exclusive illuminated slant-protected instrument panel. All controls and input and output receptacles are conveniently located for quick and easy accessibility. For operation from 110-120 volts, 60 cycles AC. Shpg. wt., 25 lbs. Less tubes.

B16514. List, \$33.50. **NET PRICE**.....**\$16.95**

B15951. RCA Tubes.....**\$2.61**

(For 25 cycles, add \$7.00.)

Knight STANDARD 7 WATT SYSTEM



- Churches • Clubs
- Schools • Stores
- Carnivals • Shows
- Taverns • Car Parks
- Demonstrations
- Restaurants

15 DAY TRIAL

E. R. P. I.
LICENSED

- With Inverse Feedback
- Universal Mike-Phono Input
- Bass-Treble Tone Control
- Beam Power Output Stage
- Safety Output Receptacles
- Fully Fused for Protection
- Illuminated Control Panel
- With Mike-Phono Fader

\$8⁹⁵

Amplifier, less tubes

A real PA sensation right from its fine looks and dependable performance down to its price tag! You couldn't get a finer system for those smaller installations. Tops for quality, features, and service!

AMPLIFIER SPECIFICATIONS

Output: Full 7 watts usable power (12 watts peak); hum is inaudible (67 db. below rated output); **Output Impedance:** 4000-4500 ohms direct from plate of tube; **For PM Speakers:** No field current provided; **Input Channels:** Two on fader (one for mike, one for phono); **Tone Control:** for bass and treble; **Gain:** on microphone, 100 db., on phono 70 db.; **Frequency Response:** 70-7000 CPS (amplifier); **Tubes:** 1-6SC7, 1-6L6G, 1-5Y3G; **Line Drain:** 70 watts; **Fused:** for operation from 110-120 volts, 60 cycles AC.; **Size:** 10" x 8 1/4" x 6 1/4". E. R. P. I. Licensed.

Ready to Use. Complete with everything you need. Perfectly matched—sets up and works in a jiffy.

Universal Input. Takes any high-impedance microphone or phono. Has microphone-phono fader; controls volume and fades from mike to phono as you want it.

Inverse Feedback. Permits you to work system at higher output with better quality.

Tone Control: You can emphasize bass or treble to suit yourself. Helps reduce feedback.

All These "Plus" Features. Has socket provision for extra PM or magnetic speaker or headphones. You can't make a wrong connection because both mike and speaker receptacles are polarized. Fuse-protected.

Attractive Case. Streamlined—in beautiful two-tone grey iridescent finish, with top carrying handle. Has fully illuminated, slanting, protected control panel.

Complete System. Complete 7 Watt System includes: 1—Knight 7 Watt Amplifier; 1—Shure Crystal Microphone, 25-foot cable and plug on desk stand; 8" PM Speaker with 30-foot cable and plug; wall baffle as illustrated; tube kit; complete operating instructions. For 110-120 V. 60 cycles AC. Shpg. wt., 34 lbs. **NET PRICE**.....**\$19⁴⁰**

B16503. NET PRICE.....

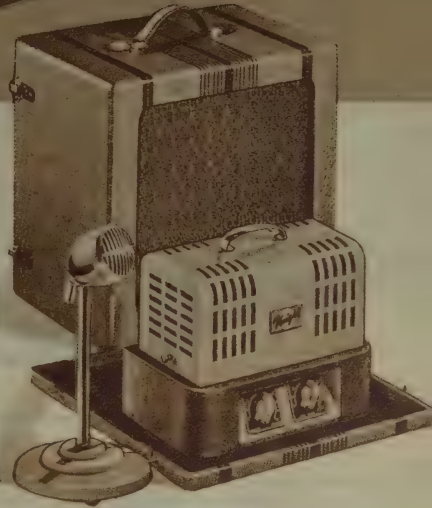
For 25 cycle operation (all 7 Watt Systems) add \$6.00.

B16500. Same as above but less baffle. Wt. 32 lbs. **NET PRICE**.....**\$17.95**

B16501. Same as B16500, but with flat type 36" x 36" baffle (Fig. E). Shpg. wt., 38 lbs. **NET**.....**\$19.90**

B16502. Same as B16500, but with steel-aluminum baffle (Fig. D). Shpg. wt., 36 lbs. **NET**.....**\$24.65**

B16610. Extra 8" PM Speaker with 30-ft. cable, plug and transformer. Shpg. wt., 6 lbs. **NET**.....**\$3.25**



"Little Giant"

7 WATT ENTERTAINER

Here's the most compact and versatile little Portable System you can buy. You couldn't ask for better portability, for greater value. It's as easy to set up and operate as any ordinary radio set. Popular for use in restaurants, in small dance halls, in the home, in taverns, in clubs, for ball score broadcasts, for paging, etc. Truly a "Little Giant" in power and performance. Comes complete in compact single-unit portable case, 13 3/4" x 13 3/4" x 10 1/2". Weighs only 31 lbs. Includes: Knight 7-watt amplifier, with tubes; Shure Crystal microphone on desk stand, with 25-foot cable and plug; 8-inch PM speaker with 30-foot cable and plug. For operation on 110-120 volts, 60 cycles AC. Shpg. wt. 36 lbs. **B16504.** List Price, \$42.95. **NET PRICE**.....**\$21⁶⁰**

B16611. Extra 8" PM speaker, transformer, 30' cord and plug in portable case. **NET**.....**\$6.90**

7 WATT AMPLIFIER ONLY

The Knight 7 Watt "Little Giant" amplifier is also available separately with all features described at left. Comes complete with protective steel cover and handle. Has streamlined base with slant-protected instrument panel. Has wiring diagram on base plate. Less tubes. Shpg. wt., 12 lbs. **B16507.** List, \$17.50. **NET**.....**\$8.95**

B15950. RCA Tubes. Shpg. wt., 2 lbs. **NET**.....**\$1.85**

Knight 30 WATT STANDARD SYSTEMS



FOR ALL



HALLS



CHURCHES



ORCHESTRAS

PARKS
STORES
FACTORIES
AUCTIONS

E. R. P. I.
LICENSED

\$24.45

Amplifier,
less tubes,
meter & phono

LIBERAL 15 DAY TRIAL OFFER
See Page 73 for Trial and Guarantee

ALL THESE 1941 P. A. FEATURES

- Illuminated Panel
- Safused Speakers
- 3 Input Channels
- Inverse Feedback
- Universal Mike Input
- Optional Phono Top
- Universal Output
- Bass-Treble Control
- Silencer Mike Jacks
- Beam Power Tubes
- Speaker Selector
- Fuse-Protected
- 2 Contact Outputs
- Take-down Stand
- E. R. P. I. Licensed

AMPLIFIER SPECIFICATIONS

Output: Full 30 watts usable power (35 watts peak); hum is inaudible (55 db. below rated output); **Output Impedance:** 4, 6, 8, and 500 ohms on selector; **For P.M. Speakers:** no field current provided; **Input Channels:** Three, two for high-gain mikes, one for phono, on individual controls; **Tone Control:** for bass and treble; **Gain:** on microphone, 128 db.; on phono, 80 db.; **Frequency Response:** 50-10,000 C. P. S. (on amplifier); **Tubes:** 2-6SJ7, 2-6SC7, 2-6L6G, 1-5U4G; **Line Drain:** 185 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 16 3/4" x 10 1/4" x 9 3/4"; **E. R. P. I. Licensed.**

"What type of Sound System do you need to fill 90% of your P.A. Requirements?" That's the question we asked thousands of P.A. users. And here's the answer, based on our research—the most popular of all Sound Systems—the **Knight 30 Watt Portable**. You get far-reaching power punch. You get the right kind of tone quality. And you've been looking for just the features this system has. We want you to check and compare. We know you'll applaud our answer to 90% of your P.A. needs!

3 Input Channels. Only the most costly amplifiers have this feature. You can use any two high-impedance microphones and any high-impedance pickup. And you have perfect control of each channel because there's a three-position mixer circuit with three individual controls that give you any degree of blending or mixing you may require.

Stabilized Inverse Feedback. An important feature you'll be quick to appreciate. Gives you greater power with less hum and noise—and that means remarkably improved tone quality.

Bass-Treble Control. Gives the right kind of tonal emphasis—turn to right for high notes, to left for low. Minimizes feedback, too; compensates for varying acoustical conditions. Not just an ordinary tone control, but a real asset to you in your P.A. applications. You'll notice the difference in performance—it's just another example of the extra value you get in **Knight**.

Lighted, Slant-Protected Panel. Another **Knight "First"**—never before incorporated in equipment selling at this price. You asked for it, and here it is—a fully illuminated instrument panel, slant-tilted but set-in for protection—to give you wonderfully easy operating control anywhere. No more guessing; no more fumbling in the dark.

Safused Speakers. Exclusive with **Knight**. Speakers are specially fused for protection against overload. A safety-first speaker feature found in no other system.

Optional Phono Top. A real advantage. You can buy the 30 Watt System with built-in phono top—no extra cases, no trailing wires to fuss with. Includes: rim-drive 78 R.P.M. motor, 9" turntable, Shure Crystal pickup, switch, arm-rest, needle-cup and plug-in connections. The optional phono top is another **Knight "First"**—pioneered by **ALLIED**—to give you more for your money.

Extra-Value Features. You get the advantages of a special Universal Output Selector, which permits instant matching to additional speakers or line. There's no guessing or figuring; just set where tone and volume sound best; Silencer jacks check hum when mike is removed. Two-contact speaker sockets make connections easy—no soldering required. Use standard cube-tap for adding extra speakers. Amplifier is protected by fuse and the amplifier A.C. input is tapped to assure full output even when line voltage varies. Wiring diagram is mounted on amplifier base.

Simple to Operate. The 30 Watt System is completely housed in a split-carrying case of compact and handsome design. Measures only 22 1/2" x 19 3/4" x 15". Carrying weight is only 55 lbs. complete. You don't have to be an expert to set up and operate the system. You're ready to operate just a few minutes after you open the case.

15 Day Trial Offer. Prove the quality of the **Knight 30 Watt "Standard"** System to yourself. Take advantage of our 15 Day Trial Offer (see page 73) and judge for yourself. We know you'll agree there isn't a finer P.A. value on the market today.

Complete 30 Watt Portable. Includes: 1—**Knight 30 Watt Standard** amplifier; 1—Shure Crystal Microphone with Take-down Mike Stand and 25-foot cable and plug; 2—12" Safused P.M. Dynamic Speakers with 30-foot cables and plugs, complete set of tubes and operating instructions. Less phono top and V.I. meter. Entirely self-contained in portable carrying case as illustrated. For 110 volts, 60 cycles, A.C. Shpg. wt., 70 lbs.

B16533. List Price, \$115.00.

YOUR PRICE COMPLETE.....

Time Payment Terms: \$5.79 down, \$7.16 monthly for 8 months (See other 30 Watt Systems on Next Page. Also complete listing of accessories, including phono top, V.I. meter, etc.)

\$57.81

AMERICA'S PUBLIC ADDRESS FAVORITES!

A. NEEDS

SPORTS

SCHOOLS

THEATRES

CLUBS
PAGING
RENTALS
RMORIES



15 DAY
TRIAL

EASY TERMS

See Page 74

Knight 30 WATT ALL-PURPOSE SYSTEMS

To meet varying requirements, we offer a choice of 30 Watt Systems below, in combinations to meet practically any need. Each System includes all of the fine features described on the opposite page.

System with Wall Baffles. Includes: Knight 30 watt Amplifier, less phono top and V.I. meter; 1-Shure Crystal Microphone on B16275 floor stand with 25 foot cable and plug; 2-12 inch Safused P.M. Speakers in wall baffles with 30 foot cables and plugs; tube kit and complete instructions. For 110 volts, 60 cycles, A.C. Shpg. wt., 68 lbs. A splendid choice in an all-purpose P.A. System.

B16537.
List Price, \$108.00.
NET PRICE.....

\$5400

Terms: \$5.40 down, \$6.69 monthly, for 8 months

System Less Baffles. Same as B16537, but does not include the wall baffles. Shpg. wt., 58 lbs.

B16536. NET PRICE..... \$48.50

System with Flat Baffles. Same as B16536, but with 2-flat-type 36" x 36" baffles (Fig. A) added. Wt., 70 lbs.

B16535. NET PRICE..... \$52.45

System with Steel-Aluminum Baffles. Same as B16536, but with 2-Steel-Aluminum baffles and brackets (Fig. B) added. Shpg. wt., 70 lbs.

B16534. NET PRICE..... \$60.95

B16600. Phono Top. For 110 volts, 60 cycles, A.C. Shpg. wt., 10 lbs. NET.....

B12182. V.I. Meter. Shpg. wt., 2 lbs. NET.....

B12183. Monitor Speaker. Wt., 1 lb. NET.....



30 WATT AMPLIFIER ONLY

The 30 Watt "Standard" Amplifier has all of the features described on page 78. Beautifully housed in an all-steel case, in two-tone iridescent grey. Has lighted slant-protected control panel. Top cover is easily removable. For 110 volts, 60 cycles A.C. Less phono top and tubes. Shpg. wt., 29 lbs. Makes an ideal replacement for obsolete amplifiers or a fine all-purpose addition to your present P.A. equipment. An outstanding P.A. value. Optional equipment such as phono top, V.I. meter, etc., may be selected from complete listings above.

B16530. List, \$49.50
NET PRICE..... **\$24.45**

B15957. RCA Tubes. Shpg. wt., 2 lbs. NET..... **\$4.68**

For 25 cycles, 110 volt A.C. operation, add \$9.00 to price above.

30 WATT RENTAL AND ALL-DUTY P. A. SYSTEM

If you want an outfit that's ideal for rental and general-purpose Portable P.A. work—you can stop looking right now. You'll want just what we've developed here—a smartly designed system that lets you set up and get ready for action in record time—without a care in the world. We haven't just given you the last word in portability; we haven't just eliminated trailing wires and extra gadgets—but we've actually solved the toughest problem of all with a neat solution to your speaker mounting worries. There's nothing like it. It's the system you've been looking for because it not only does a wonderful P.A. job for you but it pays for itself in the extra time you save in setting up that you can devote to additional P.A. rentals.

The Last Word in Portability. The amplifier and speakers are completely contained in a single, compact split-type case; has space for mike. Two adjustable tripod stands are provided for ingeniously mounting the split speaker sections. Can be extended from 46" to 76". These tripods fold down compactly for easy carrying. They are fitted with special flange heads that bolt to bottom of speaker sections and have swivel arrangement for tilting speakers.

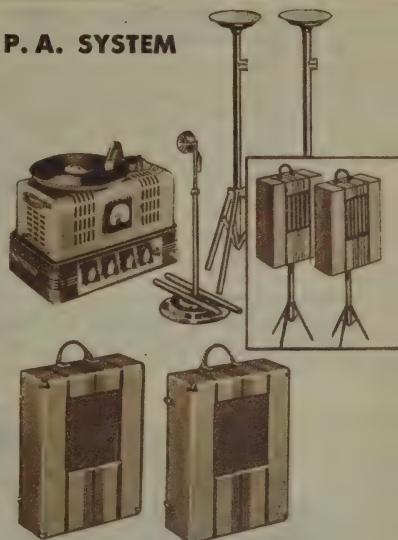
Complete 30 Watt Rental System. Includes: Knight 30 Watt Amplifier with Phono top and tubes; (less V.I. meter) 2-12" Safused P.M. Dynamic Speakers; Shure "Uniplex" low-feedback microphone; chrome take-down stand; compact portable case (22 1/2" x 19 1/4" x 15" closed); and 2-tripod speaker stands as described. With all necessary cables and instructions. For 110 volts, 60 cycles, A.C. Shpg. wt., 90 lbs.

B16661. List Price, \$180.00.

NET PRICE.....

\$8950

Terms: \$8.95 down, \$11.08 monthly for 8 months



(A)



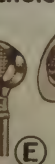
(B)



(C)



(D)



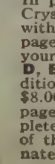
(E)



(F)



(G)



(H)

CHOICE OF MIKES

In place of the Shure Crystal mike as shown with systems on these pages, you may have your choice of mikes D, E, or F at \$3.50 additional; or G or H at \$8.00 additional. See pages 100-101 for complete description of each of these fine alternate microphones.

Knight STANDARD 20 WATT SYSTEM

E.R.P.I.
LICENSED

15 DAY TRIAL OFFER
See Pages 73-74 for Guarantee
and P.A.'s Easiest Terms

\$21⁹⁵ Amplifier, less
tubes, phono
and meter

New Feature "Scoops"—Lighted Slant-
Protected Control Panel—Exclusive New
Safused Speakers! First With Knight!

- 3 Input Channels
- Tone Control
- Dual Phono Input
- 2-Contact Outputs
- Optional Phono
- Inverse Feedback
- Speaker Selector
- Universal Input
- Universal Output
- Safety Fused

If you're looking for a rugged moderate-power Portable Sound System that's built to "take it"—if you're looking for the most P.A. for your money—you'll stop right here. We honestly feel that for downright dependability, for operating ease and convenience, for full 20 watts output, you can't do better anywhere. And you'll find some exclusive new Knight features thrown in at the price, that even high-priced systems offered elsewhere haven't begun to dream about.

Inverse Feedback. Gives you greater output—better tone quality. You can work the system at higher output levels because distortion and hum are cut down to a minimum. It's a feature found only in the better systems.

3 Input Channels. You can use any high-impedance Crystal, Dynamic or Velocity mike along with any two phono pickups. You can control the microphone and one phono pickup separately. Phonos are on fader control, permitting you to blend or mix at will.

Bass-Treble Control. Gives you the tone emphasis you want on both mike and phono. Helps cut down feedback. Turn knob to right for high notes, to left for low notes.

Lighted Control Panel. Never before available in an amplifier at this price. Control panel is slanted and inset for protection. It's completely illuminated so that you don't have to guess or fumble in the dark. Looks handsome, too—it's another Knight extra-value feature!

AMPLIFIER SPECIFICATIONS

Output: 20 watts usable power (26 watts peak); hum is inaudible (55 db. below rated output); **Output Impedance:** 4, 6, 8, and 300 ohms on selector switch; **For P.M. Speakers:** no field current provided; **Input Channels:** Three, one for high-gain mike, with individual control; two for phonograph, with fader; **Tone Control:** bass-treble type; **Gain:** on microphone, 127 db., on phono, 78 db.; **Frequency Response:** 50-10,000 C.P.S. (on amplifier); **Tubes:** 1—6SJ7, 1—6SC7, 2—6L6G, 1—5U4G; **Line Drain:** 160 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 16 1/4" x 10 1/4" x 9 3/4". E.R.P.I. Licensed.

Safused Speakers. You can't overload or damage the speakers used in this system. They're specially fused for protection. Here's another exclusive Knight feature that gives you more for your money!

Sets Up in a Jiffy. The Knight 20 Watt Standard Portable is as easy to operate as any ordinary radio. You don't have to be an expert. It sets up in a few minutes because it's really designed for simplicity and portability. And there's nothing more to add—it's complete and perfectly matched from A.C. plug to speaker housing.

Optional Phono Top. An original Knight idea. You can buy the system with matched phono top, includes '78 R.P.M. rim-drive motor with 9" turn-table, Shure Crystal pickup, switch, arm-rest, needle-cup, etc. Say goodbye forever to extra cases, fuss and bother.

Speaker Selector. Matches any additional speakers instantly—no guessing. Just set where volume and quality are best. You'll like this truly useful feature that makes it easy to add speakers when you need them.

Plus These Features. Has locking-type Mike Socket; Two-contact outputs; Fused; Wiring diagram on base plate; also provides for accommodation of V.I. Meter or Monitor Speaker (optional). Beautifully styled in two-tone grey steel case, with removable top cover and handy chromium-plated carrying handles.

Complete 20 Watt System. Includes: 1—Knight 20 Watt Standard Amplifier (less phono top and V.I. meter); 1—Shure Crystal Microphone with 25-foot cable on desk stand; 2—12" Safused P.M. Speakers with 30 foot cables and plugs attached; tube kit; complete instructions. All completely housed in a single split-type carrying case; size, 22 1/2" x 19 1/2" x 13". For 110 volts, 60 cycles A.C. Shpg. wt., 65 lbs. Comes complete—ready for instant operation by anyone.

B16523.
List Price, \$97.50.
NET PRICE.....

\$48⁷⁵

Terms: \$4.88 down, \$6.04 monthly for 8 mos.

OPTIONAL EQUIPMENT

B16600. Phono Top for above. For 110 V. 60 cycles. Shpg. wt., 14 lbs. **NET**...\$7.45

B12182. V.I. Meter, 2 lbs. **NET**...\$4.50

B12183. Monitor Speaker, 1 lb. **NET**...\$3.95

See Chart on Page 75 for Numerous Applications of this All-Purpose System.

20 WATT ALL-PURPOSE SYSTEM

The systems below possess all the fine features described above but are designed to meet a variety of P.A. needs and special applications.

System With Wall Baffles. Includes: Knight 20 Watt Standard Amplifier with tubes (less phono top and meter); Shure Crystal Microphone with 25-foot cable on desk stand; 2—12" Safused P.M. Dynamic Speakers with 30-foot cords and plugs; 2—standard Fabricoid Wall Baffles. For 110 volts, 60 cycles A.C. Shpg. wt., 55 lbs.

B16524. List Price, \$91.50.
NET.....

\$45.75

B16525. Same as above but less the baffles. Shpg. wt., 50 lbs. **NET PRICE**.....

\$41.85

B16527. Same as B16525, but with 2—36" x 36" flat-type baffles added (Fig. F). Shpg. wt., 55 lbs. **NET PRICE**.....

\$45.75

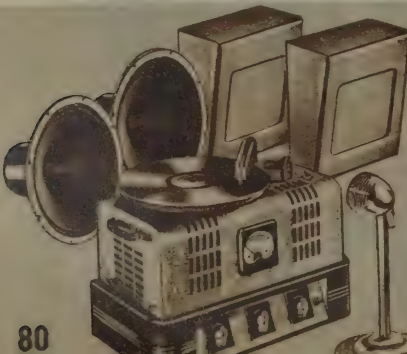
B16526. Same as B16525, but with 2—Steel-Aluminum Baffles added. Shpg. wt., 60 lbs. **NET PRICE**.....

\$54.25

HUNDREDS OF



Lecturers • Churches • Orchestras • Auctioneers • Rentals • Schools • Political Rallies • Restaurants • Night Clubs • Recording Studios



Knight STANDARD 15-18 WATT UNIVERSAL (6V. 110 V.) SYSTEM



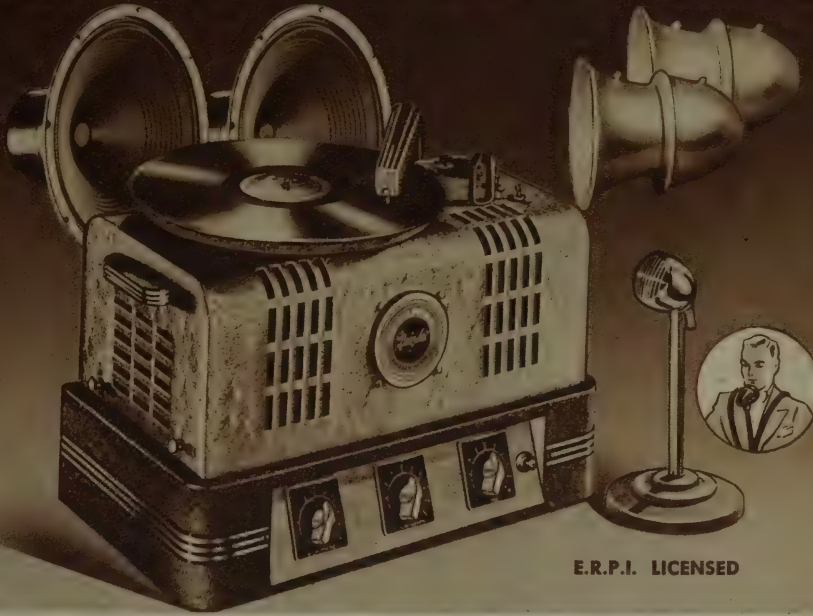
CHOICE OF MIKES

In place of the microphones shown with the systems on these pages, you may have your choice of microphones A, B, or C at \$3.50 additional. Microphones D and E are available at \$8.00 additional. See pages 100-101 for complete description of each type of alternate microphone.



FLOOR STAND

Chrome-finished, telescopic stem; adjustable from 35 to 68 inches. Available in place of desk stand at \$2.50 additional.



E.R.P.I. LICENSED

Suitable For: Street Advertising • Political Rallies • Evangelists • Sound Trucks • Carnivals • Resorts • Camps • County Fairs • Traveling Shows • Rural Schools

- Inverse Feedback
- Lighted Panel
- Dual Input
- Stand-by Switch
- Universal Output
- Safused Speakers
- Bass-Treble Control
- Built-in Phono
- Beam Power
- Locking Mike Socket

America's lowest-priced Mobile Sound System! You can't beat this value for output, for ruggedness, for its many-sided applications. It's the perfect "Economy" Mobile Sound System.

Compact, Complete. You get everything built-in—with phono included—ready to work from any 6 volt storage battery or from 110 volt A.C. line. Every component is built right and matched right for heavy-duty mobile use. Sets up in a jiffy.

Check These Features. Here's extra value that counts in performance. **Inverse Feedback**—gives you greater output, better tone quality; reduces hum and distortion so you can operate at higher volume. **Safused Speakers**—fused so they can't be damaged by overload. **Two Input Channels**—takes any high-impedance mike in addition to the built-in phono pickup. **Bass-Treble Control**—gives you just the tonal emphasis you want; cuts down feedback; assures clearer speech. **Speaker Selector**—permits quick, accurate matching of additional speakers. **Stand-by Switch**—saves the battery, but keeps filaments ready for quick use. **Lighted Panel**—slanted, protected and lighted.

And These "Extras." Locking Mike Socket; 2-contact output sockets; separately fused on 6 and 110 volts; changeover from 6 V. to 110 V. just by changing power cables; finest phono equipment; wiring diagram on base plate.

B16615. 15-18 Watt Mobile Amplifier only, with phono top but less tubes. 30 lbs. **\$49.95**
List, \$90.00. **NET PRICE.**
B15952. RCA Tubes, 2 lbs. **NET.....\$4.68**

AMPLIFIER SPECIFICATIONS

Output: Full 15 watts (6 volts), 18 watts (on A.C.) usable power output (23 watts peak); hum is inaudible (60 db. below rated output); **Output Impedance:** 4, 6, 8 and 500 ohms on selector; **For P.M. Speakers:** no field current provided; **Input Channels:** Two, one for high impedance mike, one for built-in phono with individual controls; **Tone Control:** One bass-treble control; **Gain:** on microphone, 125 db., on phono, 75 db.; **Frequency Response:** 60-8000 C.P.S.; **Tubes:** 1-6SJ7, 1-6SC7, 2-6L6G, 2-6X5G; **Line Drain:** A.C.—120 watts, D.C.—19 Amps. total; **Fused:** fully fused for operation on 6 volts D.C., or 110 volts, 60 cycles A.C.; **Amplifier Size:** 16 3/4" x 11 1/2" x 10 1/4". E.R.P.I. Licensed.

Complete 15-18 Watt Mobile System. Includes 1-15-18 Watt 6 Volt-110 Volt Amplifier with built-in phono equipment; Shure Crystal Microphone with Desk Stand and 25 foot cable and plug; 2-12" Safused P.M. Dynamic Speakers with 30-foot cables and plugs; 2 steel-aluminum projectors; tube kit; complete instructions. For 110 volts, 60 cycles A.C., or 6 volts D.C. Shpg. wt., 80 lbs.

B16618. List Price, \$145.00. **\$72.50**
NET CASH PRICE.

Terms: \$7.25 down, \$8.97 monthly for 8 months.

B16619. Same as above, but less baffles.

NET PRICE.....\$64.50

B16620. Same as B16619, but with 2-24" x 24" flat baffles (Fig. F) added. Ideal for car window installations. Shpg. wt., 75 lbs. **NET PRICE.....\$67.50**

Shoulder Mount (inset illustration above) is available in place of desk stand, with any of above systems at 65c additional.

20 WATT AMPLIFIER ONLY

The 20 Watt Knight Amplifier is available separately as an ideal replacement for obsolete amplifiers. Has all of the quality features described on page 80. Housed in an all-steel case of attractive design in a two-tone grey iridescent finish. Has lighted control panel. Top cover and base plate are easily removable for access to parts. Supplied as illustrated and described, less phono top, V.I. meter, and tubes. Shpg. wt., 25 lbs.

B16520. List, \$43.50. **\$21.95**
NET PRICE.

B15953. RCA Tubes, 2 lbs.

NET.....\$3.47

For 25 cycles, 110 volt A.C. operation, add \$9.00 to above price.

P. A. APPLICATIONS



Cafes • Hotels • Court Rooms
• Bus & Railway Terminals
• Clubs • Store, Office, Factory
Paging • Carnivals and
Roadshows

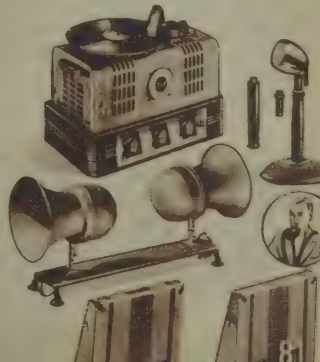
"Utility Master"

15-18 WATT UNIVERSAL SYSTEM

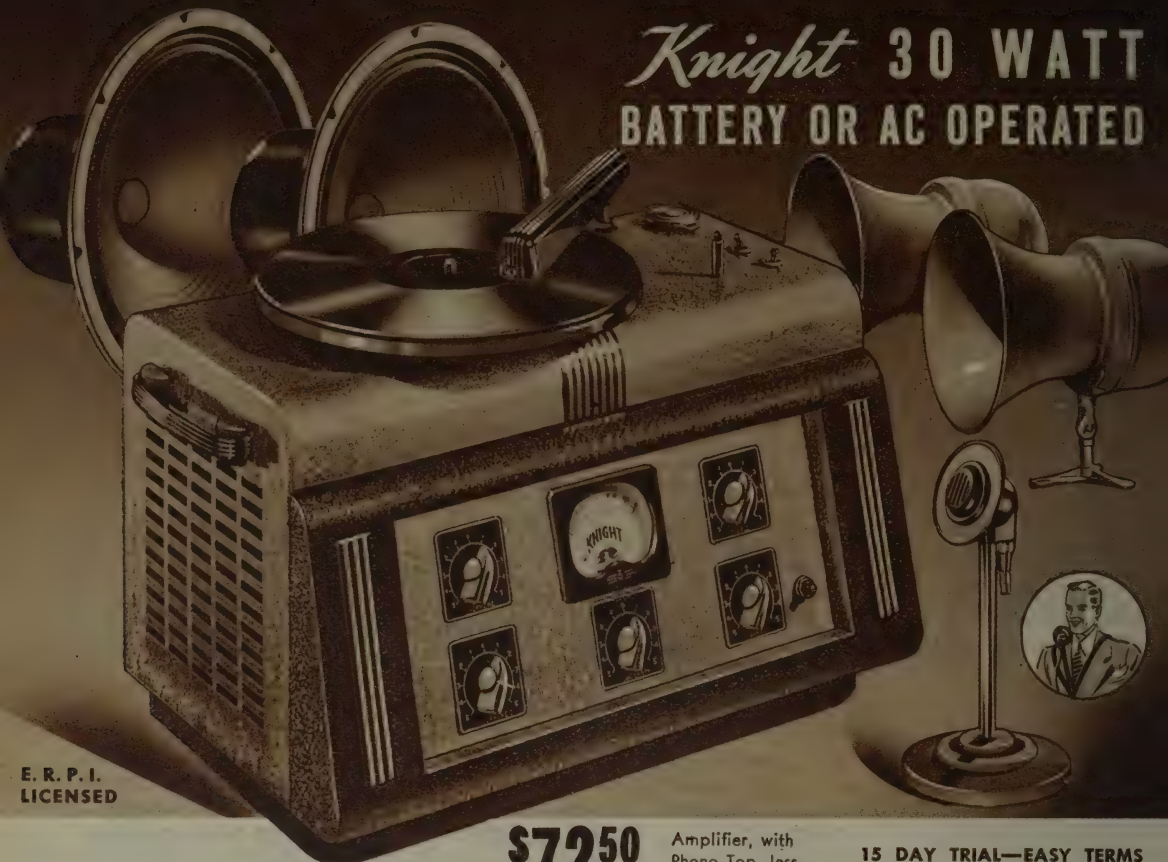
Here's a system you can cut yourself a real slice of profits with. Rent it—sell it—operate it—don't miss the opportunity! Everything you will need is included in this system for both sound truck and outdoor-indoor use. 15-18 Watt Amplifier is same as described above; has built-in phono equipment. Accessories supplied include: Shure Crystal Mike with shoulder mount and 3-way stand, with 25 foot cable and plug; 4-12" Safused P.M. Dynamic Speakers; 2-Kainer steel projectors with mounting brackets; 1-car-top mounting platform for projectors; 1-Dual-speaker case (21" x 13 1/4" x 10 1/2"; closed); 2-30 foot cords and plugs for speakers which mount in projectors; 2-100 foot cords and plugs for speakers which mount in dual case; tube kit; complete instructions. For 6 volts D.C. or 110 Volts A.C. Shpg. wt., 135 lbs.

B16617. List Price, \$220.00. **\$109.50**
NET CASH PRICE.

Terms: \$10.95 down, \$13.55 monthly, for 8 months.



Knight 30 WATT BATTERY OR AC OPERATED



E. R. P. I.
LICENSED

\$72⁵⁰

Amplifier, with
Phono Top, less
tubes and meter

15 DAY TRIAL—EASY TERMS

See Pages 73-74 for Details

- 110 V.-A.C. or 6 V.
- 4 Input Channels
- Electronic Mixing
- 2 Tone Equalizers
- Speaker Selector
- Safused Speakers
- Beam Power Tubes
- Inverse Feedback
- Built-In Phono
- Stand-by Switch
- Remote Control
- Universal Output
- Silencer Jacks
- Lighted Panel

We've set the pace for power and versatility in Mobile Sound Systems. Here's real proof of Knight engineering leadership in this better-than-ever De Luxe, Universal System. We've built it tough to "take it." We've thought out and worked out every detail for easy operation. We've packed it with features that will mean something to you when you put it through its paces in the field.

Works Anywhere. Work it from any 6 volt storage battery; run it from 110 volts, 60 cycles A.C. Whichever way you use it, we guarantee full 30 watts output. Use it indoors or outdoors—you can't beat it for versatility, power and quality. It's tops in Mobile Sound.

Four Input Channels. You can use any two high-impedance mikes along with phono pickup on amplifier and one additional phono pickup. You can control each mike separately. Phonos are operated by fader control, allowing you to blend as desired.

Inverse Feedback. Gives you greater output—better tone quality. You can work the system at higher output levels because distortion and hum are cut down to a minimum.

Dual Tone Controls. Gives the tonal emphasis you want; helps cut down feedback. One control varies bass; the other varies treble. Bass control turned to farthest left makes speech reproduction crisper and clearer.

Speaker Selector Switch. Matches any additional speakers instantly—no guessing. Just set for best volume and tone quality.

6 Volts or 110 Volts in a Jiffy. You can change the System from 6 volts to 110 volts in an instant. Just change plugs at rear.

AMPLIFIER SPECIFICATIONS

Output: Full 30 watts usable power (37 watts peak); hum is inaudible (60 db. below rated output); **Output Impedance:** 2, 4, 6, 8, 250, and 500 ohms on speaker selector switch; **For P.M. Speakers:** no field excitation provided; **Input Channels:** Four, two for high-impedance mikes, each with individual volume controls, two for phono on fader control; **Tone Controls:** Two, attenuator type, one for treble, one for bass; **Gain:** On microphone, 135 db., on phono, 80 db.; **Frequency Response:** 40—10,000 C.P.S. (on amplifier); **Tubes:** 2—6SJ7, 1—6SA7, 1—6SC7, 2—6L6G, 2—6X5G. **Line Drain:** 140 watts A.C., 24 Amps. D.C.; **Stand-by Switch:** To conserve battery drain; **Amplifier Size:** 19 $\frac{1}{4}$ " x 14 $\frac{1}{4}$ " x 13 $\frac{1}{2}$ ". E.R.P.I. Licensed.

Lighted Panel. Built just like expensive broadcast equipment. Slanted for easy control, yet inset for protection. Fully illuminated.

Safused Speakers. You can't accidentally damage the speakers through overload because they're fully protected by fuse.

Extra Features. Has stand-by Economizer Switch; Silencer Jacks check hum when mike plug is removed; Two-contact Dual Speaker Outlets; Fused on 6 and 110 volts; diagram on base plate; Headphone Monitor Jacks.

Compact Single Unit Design. The entire 30 Watt De Luxe Mobile System is built around the compact single amplifier unit. Amplifier, high-grade single-speed motor, sturdy Crystal pickup, 6 volt and 110 volt power supplies, and all controls and connecting receptacles are assembled in one compact modern steel case; size, 19 $\frac{1}{4}$ " x 14 $\frac{1}{4}$ " x 13 $\frac{1}{2}$ ".

Complete De Luxe Mobile System. Includes: 1—Knight 30 Watt De Luxe Amplifier with A.C. and battery cables, built-in phono-graph motor and pickup, 6 volt and 110 volt power supplies, 1—Knight Electro-Voice 631 Dynamic Microphone with 25 foot cord and plug with either desk stand or shoulder mount (specify choice); 2—Knight 12-inch Safused Heavy-Duty P.M. Dynamic speakers with generous 30 foot cords and 2-prong plugs; tube kit, and instructions. For 6 volts D.C. or 110 volts A.C., 60 cycles. Shpg. wt., 90 lbs.

B16563. Complete Knight 30 Watt Mobile System (less V.I. meter and steel projectors). **\$99⁵⁰**

CASH PRICE.

Terms: \$9.95 down, \$12.32 monthly for 8 mos.

B16565. Same as above but with 2—36" x 36" flat baffles (Fig. I) added. Shpg. wt., 115 lbs. **NET PRICE.....\$103.40**

B16566. Same as B16563, but with 2—fabric-covered wall baffles (Fig. F) added. Shpg. wt., 110 lbs. **NET PRICE.....\$105.00**

B16562. Same as B16563, but with 2—Kainer steel projectors and mounting brackets (as in large illustration above) added. Shpg. wt., 130 lbs. **NET PRICE.....\$116.50**

B16567. Same as B16563, but with 2—Kainer Marine Horns, brackets, and 15 watt driver units (Fig. G) in place of Knight speakers. Wt., 130 lbs. **NET.....\$126.50**

B16568. Same as B16563, but with 2—Kainer Steel trumpets, 15 watt driver units and mounts (Fig. H) in place of Knight speakers. Wt., 130 lbs. **NET.....\$129.50**

B12182. V.I. Meter. **NET.....\$4.50**

B12183. Monitor Speaker. **NET.....\$3.95**

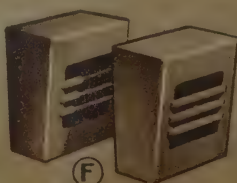
B12181. Remote Control. **NET.....\$4.85**

B16130. Car-Top Platform. **NET \$4.09**

For Floor instead of Desk Stand add \$2.50 (L)



82 In place of mikes shown with systems on these pages, you may have your choice of mikes A or B at same price. Mikes C, D, or E are available at \$5.00 additional. See pages 100-101 for complete description.



DeLuxe UNIVERSAL MOBILE SYSTEM

**WORKS ON AC OR 6 VOLTS
NO POWER PACK REQUIRED**

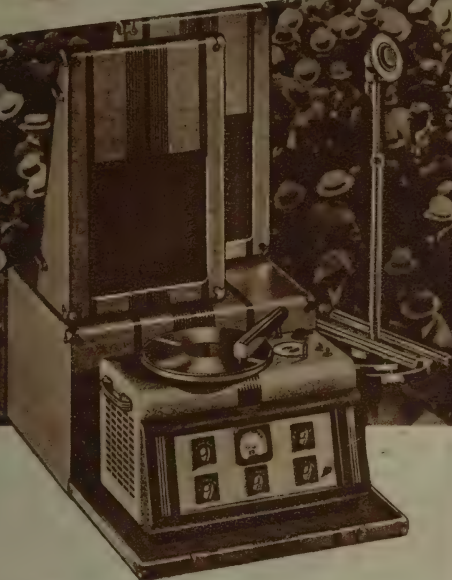


Has completely built-in 6 volt and 110 volt power supplies. No external power converters are required. It is only necessary to connect to a 110 v. 60 cycle A.C. source or to any 6 volt storage battery for instant, dependable P.A. operation.



IDEAL FOR:

- Political Rallies
- Sporting Events
- Advertising
- Road Shows
- Missionary Work
- Army Maneuvers
- Dance Bands
- Traffic Control
- Skating Rinks
- Airports—Depots
- Street Parades
- Fire Fighting
- Carnivals
- Circus Units
- C.C.C. Camps
- Regattas



30 WATT MOBILE PORTABLE SYSTEM

The **Knight 30 Watt Mobile Sound System** is also available in convenient portable form as illustrated above. Includes all of the advanced features described on page 82. A desirable outfit, ideal for "rental installations." Makes possible speedy installation and operation and offers versatile application. Entirely self-contained in two compact cases—one for amplifier (with compartment for cables, etc.) size, 22 3/4" x 17 1/4" x 17 1/4"; the other a split-case for the speakers, size, 21" x 13 3/4" x 10 1/2". Includes: 1—**Knight 30 Watt Amplifier**, turn-table and pickup in portable carrying case; 2—**Knight 12" Safused P.M. Dynamic Speakers** with 30 foot cables and plugs; split carrying case; 1—**Knight-Electro-Voice 631 Dynamic Microphone** with 25 foot cable and plug; 1—take-down floor stand; tubes; and instructions. Shpg. wt., 120 lbs. Less V.I. Meter. (For optional equipment, see listing on page 82.)

B16564. List, \$230.00.

CASH PRICE

\$114⁵⁰

Terms: \$11.45 down, \$14.17 monthly for 8 months.

AMPLIFIER ONLY

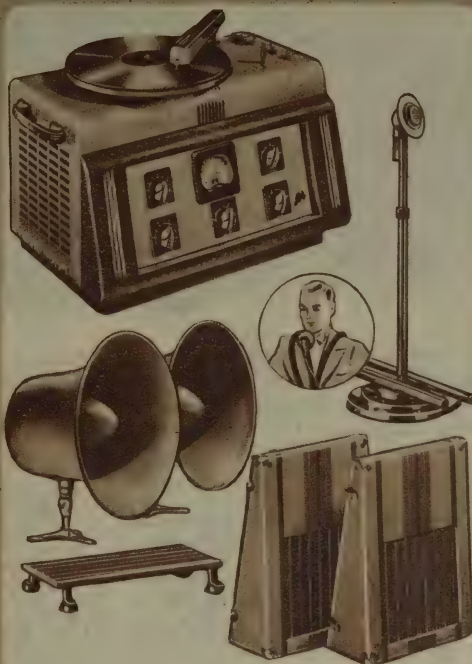
Make your present P.A. equipment universal in operation. Costs little more than converters, etc. Has all of the features and advantages described on opposite page. With phono top. Less V.I. Meter and tubes. For 6 volts D.C. or 110 volts A.C. Shpg. wt., 60 lbs.

B16560. List, \$145.00

NET PRICE.....\$72.50

B15958. RCA Tube

Kit, 2 lbs. NET.....\$5.09



SPECIAL ALL-DUTY SYSTEM

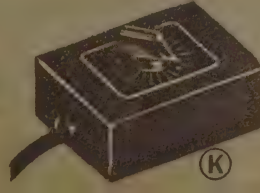
If you want to play safe in your P.A. work; if you want to anticipate every Sound installation demand; if you want it to yourself to invest in a **Knight Universal System**. To help you profit we've designed this special "All-Duty" Universal System. It's complete, ready to set up and use instantly—anywhere—indoors or outdoors—from 6 volts or 110 volts—in moving sound cars—in halls, auditoriums, etc. Has everything you need. That means anyone can install and operate the equipment with absolute ease. Complete equipment includes: 1—**Knight 30 Watt Universal Mobile amplifier** with phono top, and tubes; 1—**Knight-Electro-Voice 631 Dynamic mike** with 25 foot cord and plug; 1—Three-section take-down mike stand; 1—mike shoulder mount; 2—**Kainer Marine Horns** with 15 watt driver units and mounts, with 30 foot cords and plugs attached; car-top speaker platform; 2—**Knight 12" Safused P.M. Dynamic Speakers**, each with 100 foot cords and plugs; dual-speaker case. Nothing more to buy. For operation on 6 volts D.C. or 110 volts, 60 cycles A.C. Shpg. wt., 170 lbs. Less meter

B16660. List Price, \$330.00.

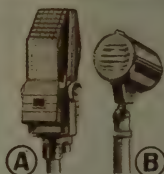
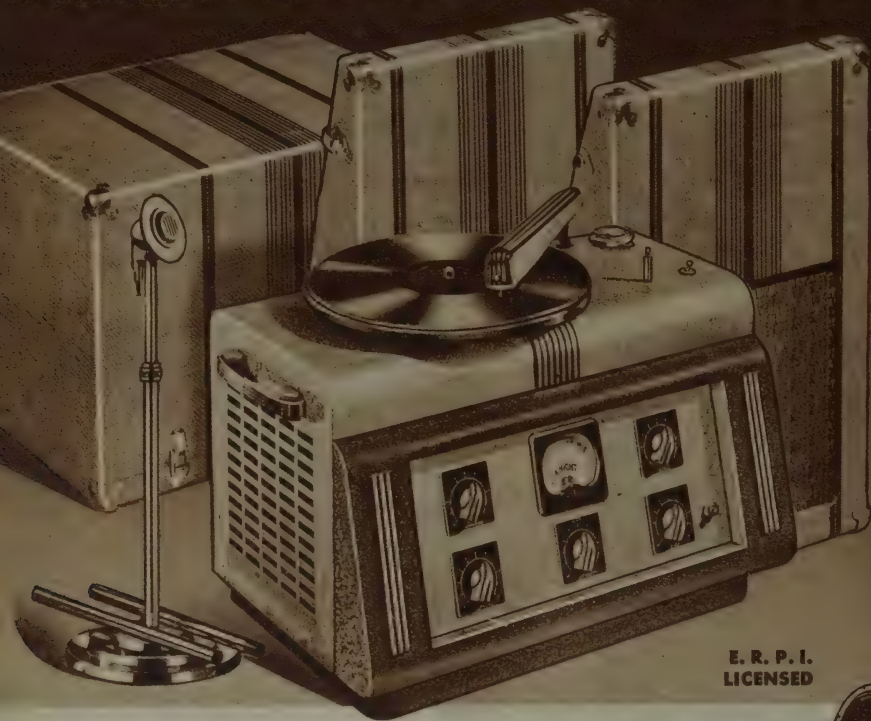
NET PRICE.....

\$164⁵⁰

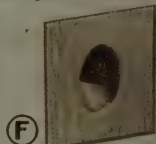
Terms: \$16.45 down, \$20.36 monthly for 8 months.



Knight 25 WATT DeLuxe MASTER SYSTEM



In place of mike shown with systems on these pages, you can have your choice of mikes A or B at same price. You can have



E. R. P. I.
LICENSED

Ideal for: Lecturers • Orchestras • Auctioneers • Churches • Small Theatres
• Political Rallies • Schools • Rentals • Paging • Hotels • Halls • Clubs

- Twin Tone Controls
- Four Input Channels
- Optional Phono Top
- With Inverse Feedback
- Speaker Selector Switch
- With Universal Output
- Safused Speakers
- Lighted Slant Panel
- Remote Control
- Monitor Speaker
- V.I. Meter Provision
- Dual Phone Provision
- Headphone Jacks
- Silencer Mike Jacks

AMPLIFIER SPECIFICATIONS

Output: Full 25 watts usable output, (33 watts peak); hum is inaudible (60 db. below rated output); **Output Impedance:** 2, 4, 6, 8, 250 and 500 ohms on selector switch; **For P.M. Speakers:** no field current provided; **Input Channels:** Four, two for high-impedance mikes, each with individual controls, two for phono on fader; **Tone Controls:** separate attenuator-type controls for bass and treble. **Gain:** on microphone, 128 db., on phono, 80 db.; **Frequency Response:** 40-10,000 C.P.S. (amplifier); **Tubes:** 2—6S17, 1—6SA7, 1—6SC7, 2—6L6G, 1—5U4G; **Line Drain:** 170 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles A.C.; **Size:** 19 1/8" x 12 1/4" x 11 1/4". E.R.P.I. Licensed.

Our highest-quality medium-power Portable Sound System. We've designed this De Luxe Master System to rigid specifications and have bent every effort to give you the most for your money. Check the power, check the features, check the price—you'll agree you can't make a better quality P.A. buy anywhere.

4 Input Channels. You can use any two high-impedance mikes along with any two phono pickups. You can control each mike separately. Phonos are operated by fader control.

Twin Tone Controls. Not ordinary controls—they allow you to vary bass and treble individually as desired. Actually helps in cutting down on feedback too.

Inverse Feedback. Gives you greater output, better tone quality. Permits you to work the system at higher output levels, because distortion and hum are cut, way down.

Speaker Selector Switch. Match additional speakers to the system instantly and easily. Just set where tone quality and volume are best—no bother, no guessing.

Lighted Control Panel. Designed just like the finest broadcast equipment. Control panel is conveniently slanted. Fully illuminated for easy control even in the dark.

Safused Speakers. An exclusive new Knight advantage. No more accidental damage to speakers due to overloads. You get absolute protection because speakers are fused.

Instant Installation. Comes to you complete, ready to set up in a jiffy. Anyone can get it going instantly. There's no special skill or technical knowledge required at all.

Extra Features: Headphone Monitor Jacks for program supervision; Silencer Jacks—check hum when mikes are removed; Booster Stage outlet for adding more power; Diagram on base; Fused; in streamlined two-tone iridescent grey case with chrome trim.

Optional Equipment. Phono Top—matched right to the amplifier—78 R.P.M. motor with Shure Crystal pickup—no more fuss with extra cases. **Remote Control**—control volume even as far as 1000 feet from the amplifier. **V.I. Meter and Monitor**—meter shows output level directly in decibels. Monitor speaker enables you to hear tone quality.

Complete 25 Watt Portable System. Includes: 1—Knight 25 Watt De Luxe Amplifier (less phono top and V.I. meter) in portable case with compartment for cables, etc.—size, 22 1/2" x 17 1/4" x 17 1/4"; 1—Knight-Electro-Voice 631 Dynamic microphone with 25-foot cable and plug; take-down floor stand; 2—12" Knight Safused heavy-duty P.M. Dynamic Speakers with 30-foot cables and plugs in split carrying case, size, 21" x 13 1/4" x 10 1/4"; tube kit; instructions. For 110 V., 60 cycles A.C. Shpg. wt., 90 lbs.

B16631. List Price, \$145.00.

NET CASH PRICE. Terms: \$7.25 down, \$8.97 monthly for 8 months.

If Jensen P.M.-12H Speakers are desired in place of Knight Speakers, add \$4.00 each.

B16601. Phono Top for above. For 110 V., 60 cycles, A.C. Shpg. wt., 15 lbs.

NET \$11.95

84 B12182. V.I. Meter \$4.50. **B12183.** Monitor Speaker (H) \$3.95

B12181. Remote Control (Fig. 1), with 75-foot cable and plug. **NET . . . \$4.85**

\$72⁵⁰



25 WATT ALL-PURPOSE SYSTEMS

System With Wall Baffles. Includes: Knight 25 Watt De Luxe Amplifier with tubes (less phono top and V.I. meter); 1—Knight-Electro-Voice 631 Dynamic Microphone with 25-foot cord on floor stand; 2—12" Knight Safused P.M. Dynamic Speakers with 30-foot cables and plugs in heavy-duty Fabricoid wall baffles; with instructions. For 110 volts, 60 cycles A.C. Shpg. wt., 80 lbs.

B16632. List Price, \$130.00. **NET PRICE \$65.45**

B16628. Same as above, but without baffles. Shpg. wt., 70 lbs. **NET PRICE \$59.95**

B16629. Same as B16628, but with 2—36" x 36" flat-type baffles added (Fig. F). Shpg. wt., 85 lbs. **NET PRICE \$63.85**

B16630. Same as B16628, but with 2—Kaiser Steel Projectors and mounts added (Fig. G). Shpg. wt., 105 lbs. **NET PRICE \$77.25**

25 WATT AMPLIFIER ONLY

Replace your present obsolete equipment with this 1941 medium-power amplifier or use it as a dependable "spare" for rentals or for permanent installations. Has all the excellent features described above. In handsome grey steel case; with removable top cover making all parts easily accessible. All plugs and sockets on rear base panel. With handy carrying handles. Less tubes, Phono Top and V.I. meter. Shpg. wt., 38 lbs.

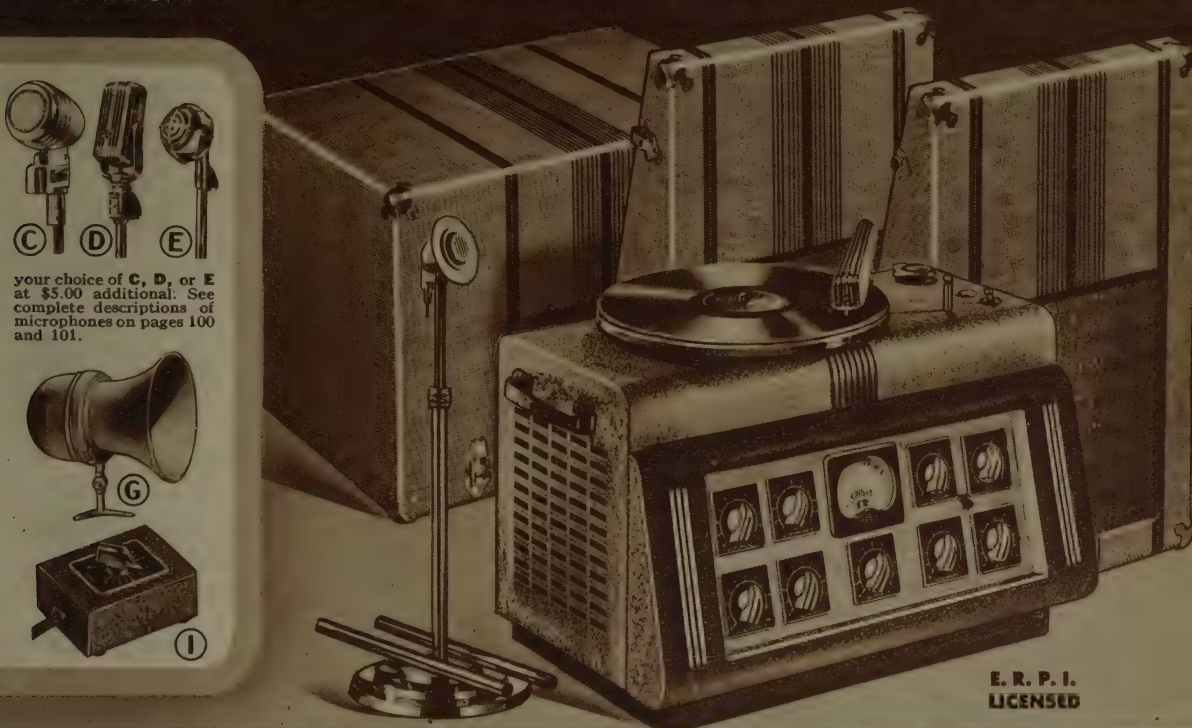
B16625. List Price, \$60.00. **NET PRICE . . . \$29.95**

B15956. R.C.A. Tubes. 2 lbs. **NET 4.55**

For 25 cycles, 110 volt operation, add \$7.80.



Knight 50 WATT DeLuxe MASTER SYSTEM



E. R. P. I.
LICENSED

For: Broadcast Stations • Recording Studios • Schools • Rentals • Rinks • Labs
• Choirs • Orchestras • Legislatures • Theatres • Mortuaries • Night Clubs

AMPLIFIER SPECIFICATIONS

Output: 50 watts usable (68 peak); hum is inaudible (63 db. below rated output); **Output Impedance:** 2, 4, 6, 8, 250 and 500 ohms on selector switch; **For P.M. Speakers:** no field current provided; **Input Channels:** Six, four for high-impedance mikes, two for phono, each with individual controls; **Master Control:** for overall control; **Tone Controls:** individual attenuation-boost types for bass and treble; **Gains:** on microphone, 135 db., on phono 80 db.; **Frequency Response:** 40—10,000 C.P.S. (amplifier); **Tubes:** 4—6SJ7, 3—6SC7, 1—6SA7, 1—6F6G, 2—6L6G, 2—83; **Drain:** 230 watts; **Fused:** for operation from 110-120 volts, 60 cycles A.C.; **Amplifier Size:** 19 1/4" x 14 1/4" x 11 1/4". E. R. P. I. Licensed.

- Dual Tone Equalizers
- Inverse Feedback
- Lighted Control Panel
- Power Driver
- 6 Input Channels
- Electronic Mixing
- Master Control
- Speaker Selector
- Beam Power Output
- Universal Output
- Silencer Jacks
- Fuse Protected
- Safused Speakers
- Headphone Jacks

Designed solely for the most critical P.A. users. We've put everything we could into this DeLuxe Master Portable System—sparing no expense or effort. We claim it to be America's finest! And we invite you to check our claims and treat yourself to the best in P.A.

Six Input Channels. Everything you could ask for; you can use any four high-impedance mikes and two phono pickups, all at the same time. Imagine it—here you have broadcast studio type control of all six channels individually at the same time—with master gain control to regulate overall volume once individual controls are set. Essential where multiple microphones are used, such as in dramatic and orchestra work, legislatures, etc.

Inverse Feedback. Gives you greater output and better tone quality, because it cuts down hum and distortion. Imparts triode tube qualities and advantages to output stage.

Dual Tone Equalizers. Two separate controls actually add emphasis to bass or treble and give you the kind of wide-range response best suited to your requirements.

Power Driver. Assures you of huge, usable reserve power for better reproduction on peaks. A DeLuxe feature found only in the most expensive professional type amplifiers.

Speaker Selector Switch. You can match additional speakers to the system instantly and easily. Just set where tone quality and volume are best—no bother, no guessing.

Illuminated Control Panel. A desirable feature; gives you fool-proof control even in the dark. Panel is slanted for convenience, yet inset for protection.

Safused Speakers. Exclusive with Knight: Speakers can't be damaged by accidental overload. They're fuse-protected against voice-coil burn-outs—a feature you'll like.

Extra Features. Headphone Monitor Jacks; Silencer Jacks; Booster Stage Outlet; diagram on base plate; Fused. Beautiful all-steel case, in grey, with chromium trim.

Optional Equipment. Phono Top—matched to the amplifier—available at small extra cost. **Remote Control**—a handy optional accessory. **V.I. Meter and Monitor**—use either as optional accessory, one for visual checking of output, the other for listening test.

Complete 50 Watt Portable System. Includes: 1—Knight 50 Watt DeLuxe Amplifier (less phono top and V.I. meter) in portable case with compartment for cables, etc.; size, 22 3/4" x 17 1/4" x 17 1/4"; 1—Knight-Electro-Voice 631 Dynamic Microphone with 25-foot cable and plug on take-down floor stand; 2—Knight Safused heavy-duty 12" P.M. Dynamic Speakers with 30-foot cables and plugs attached, tube kit; complete instructions. For 110 volts, 60 cycles, A.C. Shipping weight, 135 lbs.

B16554, List Price, \$210.00.

NET CASH PRICE

Terms: \$10.55 down, \$13.00 monthly for 8 months.

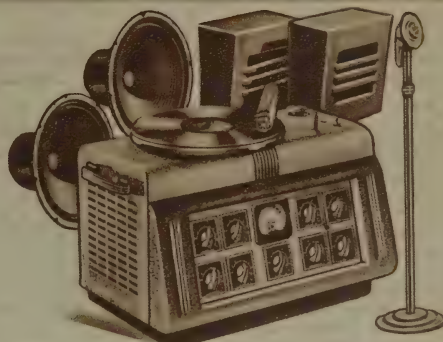
If 2—Jensen PM-12B Speakers are desired in place of Knight Speakers, add \$10.00.

B16602, Phono Top for above. Shpg. wt., 15 lbs. NET \$12.95

B12182, V.I. Meter. \$4.50. B12183, Monitor Speaker (H). \$3.95

B12181, Remote Control (Fig. I) with 75-foot cable and plug. NET \$4.85

See Page 74 for Time Payment Terms. See Page 73 for 15-Day Trial Offer.



50 WATT ALL-PURPOSE SYSTEMS

System With Wall Baffles. Includes: Knight 50 Watt DeLuxe Amplifier with tubes (less phono top and V.I. meter); 1—Knight-Electro-Voice 631 Dynamic Microphone with 25-foot cable on floor stand; 2—12" Knight Safused P.M. Speakers with 30-foot cables and plugs, in heavy-duty Fabricoid wall baffles; with instructions. For 110 volts, 60 cycles, A.C. Shpg. wt., 120 lbs. An excellent basic system of exceptional power and fidelity that will fill a wide number of Public Address applications.

B16553, List Price, \$195.00.

NET PRICE \$97.00

B16557, Same as above, but without baffles. Shpg. wt., 105 lbs. NET PRICE \$91.50

B16555, Same as B16557, but with 2—Kainer Steel Projectors and mounts (Fig. G) added. Shpg. wt., 135 lbs. NET PRICE \$108.50

B16556, Same as B16557, but with 2—36" x 36" flat-type baffles (Fig. F) added. Shpg. wt., 120 lbs. NET PRICE \$95.40

50 WATT AMPLIFIER ONLY

If you are looking for a multi-channel single-unit de luxe amplifier, here it is. No external mixers, no pre-amplifiers, no separate units to worry about. Replace your outmoded equipment or extend your P.A. facilities with this amplifier. You'll find its performance matched by its completeness and appearance. With features as described. Less Phono Top, V. I. meter, and tubes. Shpg. wt., 58 lbs.

B16550, List Price, \$110.00.

NET PRICE \$54.95

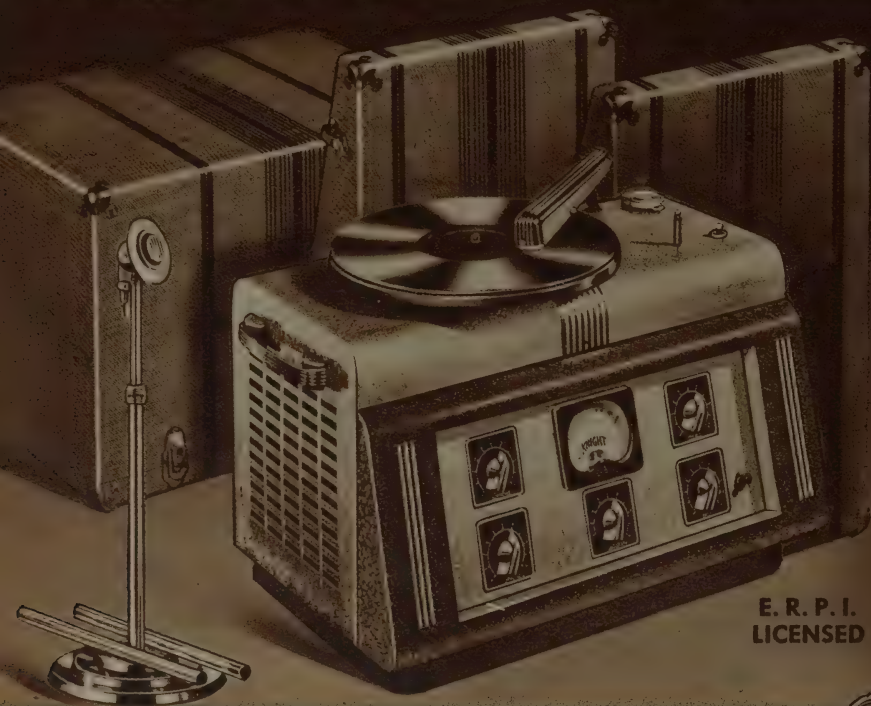
For 25 cycles, 110 V. AC, add \$15.00.

B15960, RCA Tube Kit. NET \$7.94

\$105.50



Knight 35 WATT DeLuxe MASTER SYSTEM



E. R. P. I.
LICENSED



In place of mike shown with systems on these pages, you can have your choice of mikes A and B at same



35 WATT ALL-PURPOSE SYSTEMS

System With Wall Baffles. Includes: **Knight 35** Watt De Luxe Amplifier with tubes (less phono top and V.I. meter); 1—**Knight** Electro-Voice 631 Dynamic microphone with 25 foot cord on floor stand; 2—12" **Knight** Safused P.M. Dynamic Speakers with 30 foot cables and plugs, in heavy-duty Fabricoid wall baffles; with instructions. For 110 volts, 60 cycles AC. Shpg. wt., 100 lbs. **NET \$78.00**
B16640. List Price, \$156.00. **NET \$78.00**
B16639. Same as above, but without baffles. Shpg. wt., 90 lbs. **NET PRICE \$72.50**
B16642. Same as B16639, but with 2-Kainer Steel Projectors and mounts (Fig. E) added. Shpg. wt., 130 lbs. **NET PRICE \$89.50**
B16641. Same as B16639, but with 2—36" x 36" flat-type baffles added. 100 lbs. **NET \$76.40**

35 WATT AMPLIFIER

Replace your present obsolete equipment with this 1941 high-power amplifier or use it as a dependable "spare" for rentals or for large installations. Has all the fine features described at left. All parts are easily accessible; top cover is removable in a jiffy. All input and output connections are located on rear base panel for easy accessibility. The **Knight 35** Watt Amplifier is a real beauty in appearance; it's finished in two-tone grey with chromium trim and handles. Control panel is slanted and fully illuminated. Less tubes, phono top and V.I. meter. Shpg. wt., 48 lbs.



B16635. List \$80.00. **NET PRICE \$39.95**
B15959. RCA Tube Kit. 2 lbs. **NET \$4.98**
 For 25 cycles, 110 volt operation, add \$13.00.

AMPLIFIER SPECIFICATIONS

Output: Full 35 watts usable output. (48 watts peak); hum is inaudible (57 db. below rated output);
Output Impedance: 2, 4, 6, 8, 250 and 500 ohms on selector switch; **For P.M. Speakers:** no field current provided; **Input Channels:** Four, two for high-impedance mikes, each with individual controls, two for phono with fader; **Tone Controls:** separate attenuator-type controls for bass and treble; **Gain:** on microphone, 135 db., on phono, 80 db.; **Frequency Response:** 40-10,000 C.P.S. (on amplifier);
Tubes: 2—6SJ7, 1—6SA7, 1—6SC7, 1—6F6G, 2—6L6G, 1—83; **Line Drain:** 180 watts; **Fused:** for operation from 110-120 volts, 60 cycles AC;
Size: 19 3/4" x 12 3/4" x 11 1/4". **E. R. P. I. Licensed.**

For: Schools • Athletic Fields • Orchestras • Churches • Theatres • Race Tracks
 Carnivals • Camps • Parks • Airports • Skating Rinks • Industrial Paging

- Dual Tone Controls
- Four Input Channels
- Optional Phono Top
- With Inverse Feedback
- Speaker Selector Switch
- With Universal Output
- Safused P.M. Speakers
- Remote Control
- Monitor Speaker
- V.I. Meter Optional
- Dual Phono Provision
- Headphone Jacks
- Lighted Control Panel
- Silencer Mike Jacks

We don't know where you can get more value for your Sound Dollar! If you want wide usefulness, features that count, high power and real ruggedness, you'll choose this System. And you couldn't ask for greater portable convenience in a system of this power rating. **4 Input Channels.** You can use any two high-impedance mikes along with any two phono pickups. You can control each mike separately. Phonos are operated by fader control. **Dual Tone Controls.** Not ordinary controls—they actually allow full control of bass and treble to meet widely varying needs. Really gives you wide-range tone control.

Power Driver. You'll want this feature for greater reserve power—gives you greater undistorted output and higher-fidelity tone. Assures you of plenty of power to spare.

Safused Speakers. Protects the speakers against damage from overload. Special fuse acts as "safety valve" insuring against burned-out voice coils.

Lighted Control Panel. Slanted control panel is inset for protection. Completely illuminated, just like expensive broadcast equipment, so you can operate it in the dark.

Inverse Feedback. You get greater output, better tone quality with this feature. You can work the system at higher output levels, because distortion and hum are cut "way down."

Speaker Selector Switch. Match additional speakers to the system instantly and easily. Just set where tone quality and volume are best—no bother, no guessing.

Extra Features: Headphone Monitor Jacks for program supervision; Silencer Jacks—check hum when mikes are removed; Booster Stage outlet; Diagram on base; Fused.

Optional Equipment. Phono Top—matched right to the amplifier—78 R.P.M. motor with Shure Crystal pickup—no more fuss with extra cases. **Remote Control—**control volume even as far as 1000 feet from the amplifier. **V.I. Meter and Monitor—**meter shows output level directly in decibels. Monitor speaker enables you to hear tone quality.

Instant Operation. The **Knight 35** Watt Portable is ingeniously designed so you can set it up in a jiffy. As easy to operate as your radio set. Anyone can do it; no special skill needed.

Complete 35 Watt System. Includes: 1—**Knight 35** Watt De Luxe Amplifier in attractive airplane-luggage case, measuring 22 3/4" x 17 1/4" x 17 1/2" (with compartment for cables, etc.); 1—**Knight** Electro-Voice 631 Dynamic microphone with 25-foot cable on take-down floor stand; 2—12" Safused Heavy-duty P.M. Speakers with 30-foot cables and plugs attached, both in dual speaker case, measuring 21" x 13 3/4" x 10 1/2"; 60 cycles AC. Shpg. wt., 120 lbs.

B16638. List Price, \$170.00. **NET CASH PRICE \$84.95**
 Terms: \$8.50 down, \$10.52 monthly, for 8 months.

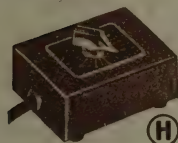
OPTIONAL ACCESSORIES

B16601. Phono Top for above. For 110 V., 60 cycles, Shpg. wt., 15 lbs. **NET \$11.95**
B12182. V.I. Meter. **NET \$4.50.** **B12183.** Monitor Speaker (G). **NET \$3.95**
B12181. Remote Control (Fig. H), with 75-foot cable and plug. **NET \$4.85**

Knight 75 WATT DeLuxe "POWER MASTER"



price. You can have your choice of **C** or **D** at \$5.00 additional. See descriptions on pages 100-101.



E. R. P. I.
LICENSED



\$67⁵⁰

Amplifier, less tubes, meter and phono top



75 WATT ALL-PURPOSE SYSTEMS

Includes: 1—Knight 75 Watt De Luxe Amplifier, less phono top and V.I. meter; 1—Knight-Electro-Voice 631 Dynamic microphone with 25 foot cable on B16275 floor stand; 4—Knight Heavy-duty Safused 12" P.M. Dynamic Speakers with 30 foot cables and plugs attached; tube kit; instructions. For 110 Volts, 60 cycles AC. Shpg. wt., 135 lbs.

B16578, List Price \$235.00.

NET CASH PRICE..... \$117.50

Terms: \$11.75 down, \$14.54 monthly for 8 months.

B16579. Same as above, but with 4—Kainer steel projectors and mounts (Fig. E) added. Shpg. wt., 205 lbs. **NET PRICE..... \$152.00**

B16580. Same as B16578, but with 4—Kainer steel trumpets (Fig. F) and 4—Jensen PAH8 driver units, with mounts and 30 foot cords and plugs—in place of the Knight P.M. Speakers. 225 lbs. **NET..... \$204.50**

B16612. Extra Kainer Trumpet and mount complete with Jensen PAH8 driver unit, with 30 foot cord and plug. Shpg. wt., 38 lbs. (Fig. F) **NET..... \$25.50**

4 Jensen P.M.-12B Speakers are available in place of Knight Speakers with above systems at \$20.00 additional.

For Time Payment Details and 15 Day Trial Offer, See Pages 73-74. No need to delay your purchase!

30 WATT BOOSTER STAGE

You can add 30 watts of power to any Knight Sound System or to your present equipment with this quality unit. Input is high-impedance which allows you to bridge across present equipment without affecting the circuit. Uses 2—6SJ7, 2—6L6G, 1—5Z3. Supplied complete with tubes, for operation on 110 volts, 60 cycles AC. Shpg. wt., 32 lbs.



B16665, NET PRICE..... \$24.50

Ideal For: Schools • Large Stadiums • Circuses • Airports • Industrial Paging • Fairs • Carillons • Race Tracks • Skating Rinks • Band Shells

- 2 Output Channels
- Inverse Feedback
- 2 Power Drivers
- Speaker Selectors
- Booster Sockets
- 4 Input Channels
- Dual Tone Controls
- Optional Phono
- Remote Control
- 2 Phono Inputs
- Lighted Panel
- Silencer Inputs
- Safety Fused
- 2 Contact Outputs
- Master Controls
- Universal Output

AMPLIFIER SPECIFICATIONS

Output: 75 watts usable power output (peak 125 watts); hum is inaudible (60 db. below rated output); **Output Impedances:** 2, 4, 6, 8, 250 and 500 ohms on dual selector switches; **For P.M. Speakers:** no field current provided; **Input Channels:** Four, two for high-impedance mikes, two for phono, each with individual controls; **Tone Controls:** attenuator-type, one for bass, one for treble; **Gain:** on microphone, 135 db., on phono, 80 db.; **Frequency Response:** 40-10,000 C.P.S. (on amplifier); **Tubes:** 2—6SJ7, 1—6SA7, 1—6SC7, 2—6F6G, 4—6L6G, 2—5U4G; **Line Drain:** 295 watts; **Fused:** fully fused for operation from 110-120 volts, 60 cycles AC; **Amplifier Size:** 19 1/4" x 14 1/4" x 11 1/4". E.R.P.I. Licensed.

Here's the "Big Bertha" of amplifiers—a full 75 Watt powerhouse that spreads a terrific blanket of sound. Big enough for the toughest space-conquering job—yet capable of velvety-clean, crisp reproduction. Gives you an amazing power in reserve, and stamina enough for the toughest service. And you'll applaud the exclusive Knight features—not just gadgets—but each one of them truly usable.

Dual Output Channels. An exclusive Knight feature. Gives you control of two separate sets of speakers at different volume levels or overall control of the total speakers at once. Really two amplifiers in one made up of separate push-pull output circuits.

Twin Inverse Feedback. Each output channel has separate Inverse Feedback. You get greater output—better tone quality with this feature. Permits you to work the system at higher volume levels because distortion and hum are cut 'way down.

Dual Power Drivers. Each pair of power output tubes is provided with its own power driver. Assures you of gigantic reserve power to permit operation at peak levels with minimum distortion. You can actually hear the difference.

Dual Speaker Selectors. Each output channel has individual speaker selector switch for quick matching of extra speakers. Just set where volume and tone are best.

4 Input Channels. You can use any two high-impedance mikes along with any two phono pickups. Each is separately controlled—allowing you to blend or mix as desired.

Dual Tone Controls. Give the twin emphasis you want; help cut down feedback. Separate controls for bass and treble. Bass control, turned to farthest left, makes speech crisper and clearer for fine outdoor results. Gives you truly flexible control.

Lighted Control Panel. Professional broadcast design is reflected in the slanted control panel of the amplifier. It is inset for protection and fully illuminated.

Extra Features. Headphone Monitor Jacks; Silencer Jacks; Booster Outlets; Fused; diagram on base plate. Handsome all-steel case, finished in two-tone iridescent grey.

Optional Equipment. Buy the 75 watt amplifier with phono top at small extra cost. Also available are: **Remote Control**—permits adjustment of amplifier output level at remote distances. **V.I. Meter**—shows output visually in decibels. **Monitor Speaker**—lets you hear tone quality.

75 Watt Amplifier Only. Amplifier only as described, but less Phono Top, V.I. Meter, and tubes. For 110 volts, 60 cycles AC. Shpg. wt., 65 lbs.

B16575, List Price \$135.00.

NET PRICE.....

Terms: \$6.75 down, \$8.36 monthly, for 8 months.
(For 110 volts, 25 cycles, add \$17.00.)

OPTIONAL AND ACCESSORY EQUIPMENT

B15961, RCA Tubes, NET \$7.94. B12182, V.I. Meter, NET.. \$4.50

B12183, Monitor Speaker(G) \$3.95. B12181, Remote Control(H) \$4.85

B16602, Phonograph Top for above amplifier, Shpg. wt., 15 lbs. NET. \$12.95

\$67⁵⁰

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THE Knight "SOLO KING"

POPULAR MUSICIAN'S SYSTEMS

The latest development in electrical amplification for musical instruments—offering distinctive new musical effects and wide-penetrating coverage. "Swing" and "smooth" bands both acclaim these new Electrical Instrument Systems. Available in two types: one designed for use with your own conventional guitar or any other string or reed instrument; the other supplied complete with its own special electric guitar and built-in pickup (illustrated). Helps to put new pep into swing arrangements, to bring up feature passages, for fades, overtones, treble endings, etc. Easy to operate.

14 WATT SYSTEM WITH KONTAK PICKUP

Consists of a **Knight 14 Watt Standard Portable Sound System** with the **Amperite Model SKH Kontak instrument pickup** (Fig. A) for attachment to your own instrument, and foot-pedal volume control (Fig. B). Simply place the tiny inconspicuous pickup unit under the strings of your instrument; adhesive tape or special clamp (p. 102) holds it securely in place. Plug foot-pedal control into amplifier and you're all set; foot-pedal leaves your hands free to play, yet allows you to get tremolo, fading effects, etc. You can electrify several instruments at once, using a separate Kontak pickup for each, all connected to this one 14 Watt System (extra pickups and controls for this purpose on page 102). Complete system includes: **Knight 14 Watt Amplifier** and **12" P.M. Dynamic Speaker** with 30 foot cable, both in portable case; case size: 22 1/4" x 19 3/4" x 15"; has space for extra speaker, with tubes, **Amperite SKH Kontak pickup**, **Foot-pedal Volume Control** and 25 foot cord, instructions. For operation from 110 volts, 60 cycles A.C. System is designed for easy operation; no technical knowledge is required. Shpg. wt., 60 lbs.

B16671. List, \$95.00.

NET PRICE

Time Payments: \$4.75 down, \$5.88 monthly for 8 months.

\$47.50

WITH ELECTRIC GUITAR. Same as above, but complete with special Electric Guitar (illustrated) with built-in pickup, finger-pick set, and special instruction book. (Because pickup is built-in, Kontak unit is not included.) Shpg. wt., 65 lbs.

B16672. NET PRICE

Time Payments: \$5.25 down, \$6.49 monthly for 8 months.

\$52.50

7 WATT SYSTEM WITH KONTAK PICKUP

An ideal Economy "Solo-King" System for small orchestras and soloists. Has good output and surprisingly fine tone quality. Consists of **Knight 7 Watt Standard amplifier** and tubes; **Amperite Model SKH Kontak pick-up** with foot-pedal volume control and 25 foot cable and plug; one 8" P.M. speaker with 25 foot cord and plug; with instructions—all in a single carrying case, 13 1/4" x 13 1/4" x 10 1/4". Shpg. wt., 35 lbs. For 110 volts, 60 cycles A.C.

B16670. List, \$67.50

NET PRICE

\$33.50

WITH ELECTRIC GUITAR. Same as above but complete with special Electric Guitar with built-in pickup, finger-pick set, and special instruction book. Shpg. wt., 40 lbs.

B16669. NET PRICE

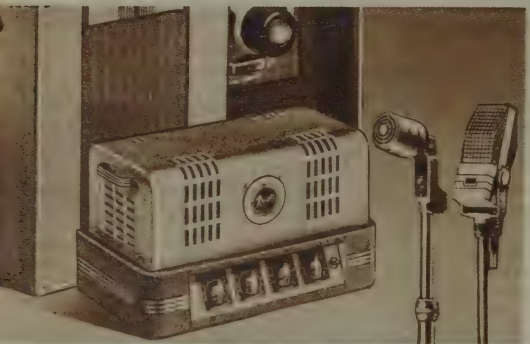
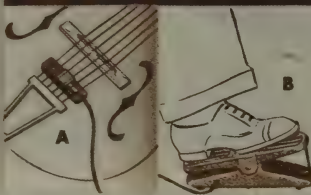
\$38.50

B15966. Case for Electric Guitar. NET PRICE

\$2.15



7 WATT SYSTEM



LOW-COST ORCHESTRA SYSTEM

We went out and talked to orchestra leaders, asked them what they were looking for in a Sound System. And here's the result of our research—a low-cost, dependable, and complete Portable Sound System that's "right in the groove." We've thought of everything—and you'll find in this System the power, the versatility, the convenience you want. There's nothing to wrestle with—it sets up in a hurry—works right and does right by your outfit, both on voice and instruments. You get full 30 watts output—and that will take care of practically any size job you want to tackle—whether barn dance, swanky ball-room, theatre, resort, bandshell, etc. And it will do real justice to your vocals, your ensembles, and your arrangements, because it's quality designed and built for wide-range tonal reproduction.

Specifications: 30 Watt Amplifier (see page 78) Features: Inverse Feedback; has individual controls for each of the two microphones supplied—permits blending of vocalist and background. Tone control; mike silencer jacks; fuse-protected; uses 2—6SJ7, 2—6SC7, 2—6L6G, 1—5U4G. Two microphones are supplied. One is the Electro-Voice V-1 Velocity type for best instrumental pickup; the other is the Electro-Voice 630 Dynamic—Ideal for vocal work. Each mike has 25-foot cord and plug and both mount on adjustable floor stands which are included. There are two speakers of the 12" P.M. type, with 30-foot cords and plugs. Speakers and amplifier mount in single split-type case, finished in airplane-luggage cloth. Size: 22 1/4" x 9 1/4" x 15".

B16662. Complete 30 Watt Orchestra System with Amplifier and tubes, 2—12" Speakers, 2 Microphones, 2 Floor Stands and Portable Case as described above. With necessary cables and instructions. For 110 volts, 60 cycles A.C.

Shipping weight, 78 lbs.

List Price, \$155.00.

NET PRICE

\$77.50

Terms: \$7.75 down, \$9.59 monthly, for 8 months.

HIGH-FIDELITY PHONOGRAPH ASSEMBLY

It's here at last—America's finest de luxe truly high-fidelity phonograph assembly. It's the thrilling answer to the widespread demand of critical music lovers for a really professional instrument. Here is an outstanding ability to invest all recordings with a depth and faithfulness that is astounding. Although primarily designed for Home use, this magnificent assembly is also recommended for Schools, Recording Studios, Broadcast Stations, Dining Salons, Theatres, Clubs, etc. This high-fidelity phonograph is offered in unit form to be installed in your own cabinet or to meet your individual requirements.

Knight 20 Watt De Luxe Phone Amplifier. Has every advanced feature for high-fidelity reproduction. Includes: Inverse Feedback which imparts triode qualities to the 6L6 Beam Power output stage and yet preserves the well-known efficiency of the 6L6 tubes. Has Automatic Volume Expansion to recreate the original realism of the recording. Features individual Bass and Treble controls which actually add emphasis or attenuate highs and lows. Has dual phono input on fader control permitting the use of two turntables. Master control reduces internal amplifier noise and hum. Includes outlet for extra speakers. Tubes: 1—6L7, 1—6H6, 1—6C8G, 2—6L6G, 1—5Z3. Size: 17 1/4" x 11 1/4" x 9 1/4". Has high-fidelity response—30 to 12,000 C.P.S.

High-Fidelity Phonograph Components. Includes: **Brush PL-25 High-Fidelity Crystal Pickup.** Has one-ounce needle pressure and permanent sapphire point needle; offset head; minimizes record wear. Frequency response is 30-10,000 C.P.S. Supplied with special tone equalizer. **Knight Transcription Motor.** Heavy-duty recording type—2-speed, with G.E. motor driving heavy aluminum 12-inch turntable through rubber idler.

Utah High-Fidelity Speaker. Special bass-reflex type 12-inch P.M. Speaker. New principle provides extended high-fidelity response up to 9000 cycles.

B16651. Complete Phonograph Assembly, including amplifier, tubes, phono-motor, pickup and speaker as described. For 110 volts, 60 cycles A.C. Shpg. wt., 95 lbs.

NET PRICE

\$97.50

B16650. High-Fidelity 20 Watt Phonograph Amplifier only. Shpg. wt., 30 lbs. NET PRICE

\$29.50

B15955. RCA Tube Kit for Amplifier. Wt., 2 lbs. NET PRICE

\$4.03



FOR 6, 32, OR 110 VOLTS AC-DC

America's only truly **Universal Sound System**. Plays anywhere, any time, from any voltage source available—with superb output, amazing fidelity of tone, and astonishing ease of operation. Comes to you complete—with built-in phono top, with power supply for 6 volts, 32 volts, 110 volts, D.C. or 110 volts A.C.—ready for operation anywhere.

AMPLIFIER SPECIFICATIONS. Output: Full 20 watts usable power, (peak 26 watts); hum is inaudible (66 db. below rated output); **Output Impedance:** 2, 4, 6, 8, 16, and 500 ohms on selector. **For P.M. Speakers:** no field current provided; **Input Channels:** Four, two for high-impedance mikes, two for phono, with individual controls; **Tone Controls:** two of attenuator type, one for bass, one for treble; **Gain:** on microphone, 135 db., on phono 75 db.; **Frequency Response:** 40 to 10,000 C.P.S. (amplifier); **Tubes:** 2—6J7, 1—6N7, 1—6L7, 1—6C8G, 2—6L6G, 2—6X5G; **Fused:** fully fused for operation on all voltages, 110 volts, 60 cycles A.C., or 6, 32, 110 volts D.C.; **Amplifier Size:** 20½" x 13¼" x 13"; **E.R.P.I. Licensed.**

Robot Voltage Selection. Robot control automatically adjusts amplifier for operation from 32 volts D.C., or 110 volts A.C. or D.C. Change to 6 volts is accomplished in a jiffy by means of battery cable.

4 Input Channels. Has individual controls for two high-impedance mikes, and for additional crystal or magnetic pickup. Has full mixer action.

Dual Tone Controls. Permit individual bass or treble variation as desired; minimize feedback. Gives you flexible, wide-range tone control.

Inverse Feedback. Gives higher usable volume level by minimizing distortion and improving tone quality. An effective and desirable feature.

Speaker Selector. Permits instant matching of additional speakers to amplifier. No more guessing; just set where tone and volume are best.

Built-in Phono. No extra units, no trailing wires. Highest quality phono components; 78 R.P.M. phono motor; Shure Crystal Pickup, etc.

Extra Features. **Knight 12" Safused P.M. Speakers** for exceptional fidelity; Stand-by Switch reduces battery drain; Silencer Jacks check hum when mike plug is removed; Headphone Monitor Jacks; fully fused; diagram mounted on base plate; provision for V.I. Meter, Monitor Speaker and Remote Control; two dual-contact speaker sockets. Amplifier case is streamlined in design; built into a beautiful two-tone brown steel case.

Complete 20 Watt Universal System. Includes: 1—**Knight 20 Watt Universal Amplifier** with phono top; 1—Shure "Unilux" Crystal Microphone with 25 foot cable on floor stand; 2—12" **Knight Safused P.M. Speakers** with 30 foot cords and plugs attached; 2—Kainer Steel Projectors and mounts; tube kit; complete instructions. Less V.I. meter. For 6 volts, 32 volts, and 110 volts D.C., and 110 volts A.C., 60 cycles. Shpg. wt., 125 lbs.

B16655. List Price, \$255.00.
NET CASH PRICE.

\$127.50

Time Payments: \$12.75 down, \$15.78 monthly, for 8 months.

B12182. V.I. Meter. Shpg. wt., 1 lb. **NET PRICE.**

\$4.50

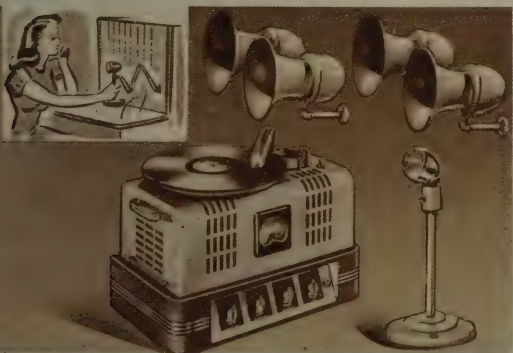
B16656. 20 Watt Amplifier Only. Has all features described above, including phono top, but less tubes and V.I. meter. Wt., 65 lbs. **NET PRICE.**

\$72.50

B15954. RCA Tube Kit. **NET.**

\$5.89

Knight 20 WATT UNIVERSAL SYSTEM



POWERFUL PAGING SYSTEM

A money-saving, efficiency-promoting necessity for modern business. Ideal for factories, offices, warehouses, transportation terminals, etc. Makes possible instant and constant communication with entire organization even where distances are great and noise levels are high. Takes the burden off the switchboard by locating persons directly over the Sound System. Person paged makes contact by nearest phone.

Specifications. Amplifier has full 30 watts output, sufficient to cover large areas. Features include: Inverse Feedback; V.I. Meter; Tone Control; Phono Input; Speaker Selector Switch; Lighted Control Panel, etc., (see full description on page 78). A Shure Crystal Microphone is provided with on-off switch and 25 foot cable on desk stand. Speakers are rugged Jensen PM-8DS 8" P.M. type housed in Kainer Steel Projectors with wall mounting brackets. Amplifier has ample power for extra speakers. Complete System is easy to install and use. Amplifier has provision for adding Phono Top (listed below) for playing records.

Complete 30 Watt Paging System. Includes: **Knight 30 Watt Amplifier** with tubes and meter (less phono top); Shure Crystal Microphone with 25 foot cable and switch, on desk stand; 4-Jensen PM-8DS Speakers with transformers, in Kainer Steel Projectors with wall mounting brackets. With instructions. For 110 volt, 60 cycles A.C. Shpg. wt., 80 lbs. **\$83.50**

B16676. List Price, \$167.00. **NET PRICE.**

B16600. Optional Phono Top. Wt., 10 lbs. **NET.**

B16606. Extra 8" Speaker and transformer in Kainer Steel Projector with mounting bracket. Wt., 12 lbs. **NET.**

B2414. Special Speaker Connecting Cable. 100 FEET. **\$1.85**

B16284. Special PBX Telephone Arm for mounting microphone on switch board. Shpg. wt., 4 lbs. **NET PRICE.**

\$1.95

We invite you to write to **ALLIED'S Sound Engineers** for information on your specialized Paging needs.



THE Knight "SPEECH-MASTER"

Here's an entirely new kind of Sound System—built all in one unit—just like a radio receiver! And it's just as easy to operate. All you do is plug in on A.C., and it's ready for powerful sound results. Anyone can operate the **Knight "Speech-Master."** You don't have to be an expert. Just the type of sound system that lecturers, election campaign speakers, demonstrators, etc., want.

Everything Built In. In one beautiful steel case, you get everything—Microphone, Amplifier, Speaker and Lighted Tilt-top Reading Table. You don't have connecting lines to worry about. No setting-up. Plugs in and plays.

14 Watts Output. A powerful **Knight 14 Watt Amplifier** is built in. Features: Inverse Feedback—gives you greater output and better tone quality; Phono Connection—permits you to add a record player for quality record reproduction; Bass—Treble Tone Control—gives you just the tone emphasis you want; separate microphone and phonograph volume controls in mixer circuit; provision for use of additional speakers which are easily matched by special speaker selector; uses 1—6J7, 1—6Z7G, 2—6V6G, 1—80. All controls are easily accessible on chromium panel at rear of case.

Quality Components. Equipped with uni-directional Shure "Unilux" Crystal Microphone, mounted on special stand attached to case. Hinged to fold down flat for carrying. A full 8" P.M. speaker is enclosed at case front.

Compact Case. You'll like the clever case of the **Knight "Speech-Master."** It's small in size; only 18" x 17" x 13¼". Fits practically anywhere. Has beautiful iridescent brown finish and chromium carrying handles. Has ingenious indirect illumination for table top.

Complete "Speech-Master." Includes: **Knight 14 Watt Amplifier** with tubes; 8" P.M. Speaker, Shure "Unilux" Crystal microphone mounted on special stand—in the single unit all steel table-type case illustrated. For 110 volts, 60 cycles, A.C. Shpg. wt., 55 lbs.

B16675.
NET PRICE.

Time Payments: \$9.00 down, \$11.13 monthly for 8 months.

B16605. Extra 8" Portable Jensen Speaker, with 30-foot cord. Shpg. wt. 12 lbs. **NET.**

\$89.95

89



Knight "AUDIO- MASTER"

DESIGNED FOR:

- Schools and Colleges
- Broadcast Stations
- Advertising Agencies
- Recording Studios
- Sales Demonstrations
- P.A. Rental Work

TRANSCRIPTION PLAYER
AND P. A. SYSTEM
FOR A.C.-D.C. OPERATION



THE QUALITY P. A. SYSTEM

FULL 20 WATTS POWER OUTPUT

Here, for the first time, is a powerful new system combining the most remarkable compactness in P.A. with amazing universal operation from 110 volts A.C. or D.C. Delivering full 20 watts output on either A.C. or D.C. the "Audio-Master" provides wide high-quality coverage from microphone, and perfect reproduction of all records and transcriptions up to 16-inch size at either 78 or 33 1/3 R.P.M. It is the last word in completeness, compactness and P.A. versatility.

Compact and Convenient. This is the kind of handy portable system you've been dreaming about. Everything is built right into the compact, sturdy case that measures only 16 1/2" x 16 1/2" x 8 1/2" closed. Has compartment for records and turntable. Beautifully finished in black-grained leatherette. It sets up in a jiffy; carries just like luggage. There's nothing like this versatile system for downright carrying and operating convenience.

Built-In Amplifier. Full 20 watts output. Has two input channels; tone control; inverse feedback; extra speaker outlet; mike-phonograph mixer. Gain is 120 db. on mike, 83 db. on phono. Tubes used are: 1-6SJ7, 1-6SC7, 2-6L6, 1-ST4. Frequency response—40 to 10,000 C.P.S. Hum is negligible—58 db. below full output. Low drain, 160 watts.

Phonograph Components. Superior phonograph components are used as follows: heavy-duty induction motor operates at uniform unvarying speeds of 33 1/3 or 78 R.P.M. on 110 volts A.C. or D.C. Has 16-inch balanced cast-aluminum turntable and Astatic 12-inch transcription type pickup. With needle-cup and pickup rest.

High-Quality Speaker. Incorporates a Jensen 10-inch P.M. Dynamic Speaker mounted in lid with more than 3 1/2 square foot baffle area. Speaker uses oversize Alnico magnet and special cone for proper bass emphasis. Speaker and lid may be detached from case and set up wherever desired.

Complete 20 Watt "Audio-Master." Includes: Knight 20 Watt AC-DC Amplifier and tubes; Shure "Uniplex" uni-directional microphone (for low feedback) with 25 foot cable and plug, on take-down stand; heavy-duty dual-speed motor and 16-inch turntable with Astatic pickup; Jensen 10" P.M. Speaker mounted in lid of case; portable case. With instructions. For 110 volts, 60 cycles A.C. or D.C. Shpg. wt., 60 lbs.

B16680.
List Price, \$255.00.
NET PRICE.....

\$12750

Terms: \$12.75 down, \$15.78 monthly for 8 months

If system is desired less microphone and stand, deduct \$19.50.

B16681. Extra Speaker. Consists of 10-inch Jensen P.M. Speaker (as described above) in portable black crackle metal case. Shpg. wt., 10 lbs. **NET \$11.25**

Knight "ECCLESIA" CHURCH SYSTEMS



A new complete loud-speaker system designed for the modern church. Not just an ordinary assembly of parts but a specially designed and matched system based on long experience and study of church needs. Now, every church, large or small, can afford a high-quality loud-speaker system. The Knight "Ecclesia" Church System serves a number of essential needs. It will reinforce sermons and choir with excellent fidelity and coverage. It can also be used with hearing-aid accessories listed below to add excellent hearing-aid facilities for hard-of-hearing members of your church. The "Ecclesia" is supplied complete, ready to install and operate with minimum effort.

SPECIFICATIONS: Amplifier has 25 watts output (see page 84 for full description). Features two separate microphone inputs with individual controls; inverse feedback; lighted, slanted control panel; speaker selector switch. A low-feedback Shure Uniplex Crystal microphone is supplied on desk stand for pulpit use; an Electro-Voice V-1 Velocity mike on floor stand is provided for choir use. Two 12" Knight Safused P.M. Speakers are mounted in beautiful walnut-finished wall baffles.

"Ecclesia" System Complete. Includes: Knight 25 watt De Luxe Amplifier with tubes; Shure Uniplex Crystal microphone and desk stand; Electro-Voice V-1 Velocity mike on floor stand—each with 25 foot cord; 2—12" Knight P.M. speakers with 30 foot cords in walnut wall baffles. For 110 volts, 60 cycles A.C. Wt., 15 lbs.

B16673. List Price, \$167.00.

NET PRICE.....

\$8350

Terms: \$8.35 down, \$10.34 monthly, for 8 months

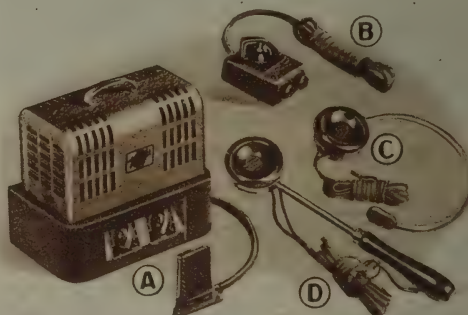
"Ecclesia"—With Chimes. Includes: Knight 75 Watt Amplifier (see page 87 with tubes, phono top and monitor speakers, Klinger Steel Trumpets and mounts with Jensen PAH-8 driver units and line transformers; 150 foot cable (one length); 2—12" Knight P.M. Speakers with 30 foot cords in walnut wall baffles; Shure Uniplex Crystal mike on desk stand; Electro-Voice V-1 Velocity mike on floor stand; set of 5—12 inch two-sided chime recordings. For 110 volts, 60 cycles A.C. Shpg. wt., 275 lbs.

B16647. List Price, \$335.00. **NET PRICE**.....

\$26750

Terms: \$26.75 down, \$33.11 monthly, for 8 months

B9993. Set of 5 Acetate records of beautiful chime recordings, developed for far-carrying power. (Write for list of titles.) **NET \$15.00**



Knight HEARING-AID SYSTEM

For use in churches, theatres, schools, lodges, etc., to bring new enjoyment to the hard-of-hearing, at remarkably low cost. Extremely sensitive; picks up all sound, whether voice or music, with absolute freedom from annoying hum, noise or buzz. Can be quickly installed anywhere by anyone from clear easy-to-follow instructions provided. Individual listeners may vary volume to suit their own requirements by means of small volume control boxes. 7 Watt Amplifier will adequately handle up to 50 earphone units of the crystal type. (See listings below.) Amplifier has polarized input and output sockets; impossible to hook up wrong. Has tone control, volume control, and A.C. switch on front panel. Sound pickup unit (Fig. A) is special high sensitivity static velocity type with 25 foot cord and plug. For 110 volts, 60 cycles, A.C.

B12176. Knight Hearing-Aid System, with tubes and instructions. (Select accessories below.) Wt., 25 lbs.

YOUR PRICE.....

\$2450

B12089. Fig. B. Hearing-Aid Volume Control Box. Permits adjustment of volume to individual requirements, 1 1/2" x 2" x 2 1/4". Has tip jacks for phone cords and 50,000 ohm volume control. Brown crystal line finish. 4 ft. cord. **NET**.....

B12178. Fig. C. Crystal Earphone with 4 ft. cord.....

B12179. Fig. D. Lorgnette Phone with 4 ft. cord.....

Knight BASIC SCHOOL SYSTEM



Knight 4 WATT PHONO AMPLIFIER



Every school, large or small, can now afford its own Centralized Sound System. Here is the complete low-cost answer to the school demand for a dependable system that will provide adequate coverage and fine tone.

Use Up To 25 Speakers. The Knight Basic School System is built around the Standard 30 Watt Amplifier (page 78) which is capable of driving up to 25 P.M. dynamic speakers. Affords coverage of classrooms, auditorium, gymnasium, study-hall, cafeteria, etc.

For Voice and Record Transmission. The 30 Watt School System permits the transmission of speech and recordings to any individual speaker or to any group of speakers at will. Selection of desired speakers is made by means of a compact switch box, containing twenty-five switches, each controlling a separate speaker. Permits the relaying of educational talks and programs, of emergency calls, musical and educational recordings, etc. Installation and operation are extremely simple.

Basic School System. Includes: 1—Knight 30 Watt Amplifier with built-in Phono Top and tubes; Shure Crystal Microphone with 25 foot cable and plug, on desk stand equipped with switch; 1—8" P.M. Dynamic Speaker in wall baffle with volume control for monitor use; special 25-position Selector Switch Box. With instructions. (See below for accessories.) Shpg. wt., 65 lbs.

B16663. List Price, \$155.00.

NET PRICE.....\$77⁵⁰

B16604. Standard 8-inch P.M. Dynamic Room Speaker, in wall baffle as illustrated. Shpg. wt., 8 lbs. **NET PRICE.....\$3.65**

B16603. 12-inch P.M. Speaker for auditorium or gymnasium, in wall baffle. Shpg. wt., 9 lbs. **NET EACH.....\$6.25**

B2414. 2-conductor speaker connecting cable. 100 Feet. **\$1.85**

B16613. Switch Box only. 12" x 9" x 4 1/4". 5 lbs. **NET...\$24.75**

(Bring radio into the classroom also. See Radio Tuner below.)

Now, for the first time, you can get a high quality AC-DC amplifier around which to build your own record-reproducing unit at economical cost. Especially designed by **ALLIED'S** engineers to provide low-cost record reproduction with highest quality; sacrifices nothing; uses the very finest of materials and workmanship. Also suitable for use in modernizing old phono equipment. The **Knight 4 Watt AC-DC** amplifier is extremely compact in size; measures only 4" wide, 8" long and 2" high exclusive of tubes. Overall height with tubes inserted is only 6 1/2". Uses 1—6C8G, 2—25L6G, 1—25Z5 tubes, and 1 ballast. Will operate from any 110 volt AC or DC outlet; produces full 4 watts output, more than enough for the home or for small audience groups up to approximately 250 persons. Amplifier has input circuit for high-impedance crystal pickup. Output circuit is 3000-4000 ohms and designed to operate with a Permanent Magnet dynamic speaker having an output transformer to match the 2 beam-power 25L6G tubes in push-pull. Volume control on front is equipped with "on-off" switch; tone control permits accentuation of treble or bass ranges as desired. A remarkably useful amplifier of dependable quality at an exceptionally low price. Shpg. wt., 8 lbs.

B10055.

Knight 4 Watt A.C.-D.C. Amplifier, less tubes.

NET PRICE.....\$5⁸⁵

Amplifier with Extended Leads. Same as above, but with controls extended on 36" leads for mounting on cabinet or motor-board. Shpg. wt., 9 lbs. Less tubes. **\$6.25**

B10068. **NET PRICE.....\$2.10**

B10056. Tube Kit for above amplifiers. **NET.....\$2.10**

B15924. Jensen 8" P.M. speaker for use with above amplifiers. Efficiently handles the full output, and reproduces voice and music with superb tone. Shpg. wt., 4 lbs. Less transformer. **NET....\$2.73**

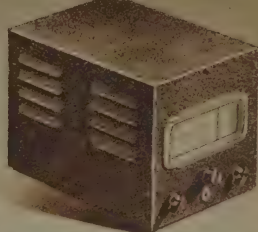
B11388. Output transformer to match above speaker or any speaker to phono amplifiers. **NET.....\$6c**



Knight VOLUME EXPANDER



MEISSNER UTILITY TUNER



Knight HOME MOVIE SOUND UNIT

Synchronize Your Silent Home Movies with Living Sound; Get Thrilling Accompaniment and Sound Effects by Record

Here's an inexpensive complete Sound System that will bring a real thrill to amateur movie-makers everywhere. You can now show your pictures and accompany them with a continuous background of appropriate music, sound effects and narration. Plays records continuously, with plenty of output; or you can use the microphone to make your own running comments. This quality Home Movie Unit is built around the **Knight 14 Watt Portable** System (shown on page 76), which delivers plenty of power with excellent tonal fidelity. Amplifier and speaker are housed in a single compact carrying case, 22 1/2" x 19 1/4" x 15". A Shure Crystal microphone and a floor stand are included. A dual-phono turntable is furnished in a companion carrying case; consists of two 78 R.P.M. Green-Flyer phono motors with Shure Crystal pickups; has fader control for fading from one record to another. All necessary connecting cables are included. Sets up in a jiffy. You don't have to be an expert to operate it; works easier than a projector. Every user of silent movie equipment, whether home enthusiast, school, church, club, or institution, will want this type of equipment.

B16684. Complete Knight Home Movie Unit. Includes complete 14 Watt Portable System as described, mike and stand, and portable dual turntable. For 110 volts, 60 cycles A.C. Shpg. wt., 95 lbs.

NET PRICE.....\$73⁵⁰

B16685. Dual Turntable Unit Only. Wt., 40 lbs. **NET \$33.50**

A complete self-contained, self-powered unit for use with any amplifier or electric phonograph lacking an effective volume expander. Designed to recreate the original tonal realism of phonograph recordings. When recordings are made, it is necessary to reduce the louder passages and to increase the level of the softer passages to avoid high surface noise and over-cutting into adjacent grooves. To recreate the original rendition properly, the Volume Expander automatically builds up the louder passages to their true volume, maintaining a correct balance between the loud and soft passages of the original recording. Uses the following tubes: 1—6N7G, 1—6K7G, 1—6H6G, 1—6X5G. Two controls are used, one for control of volume, the other to control expansion. 11 3/4" x 6 1/4" x 8 1/4".

B9850. The Knight Volume Expander. For 110 Volts, 50-60 cycles A.C. Shpg. wt., 12 lbs. Less tubes. (Not a record player — for use as record-playing accessory only.) **\$10⁹⁵**

YOUR PRICE.....\$1.75

Compact, general-purpose radio tuner for local as well as distant reception. Compactly designed to permit use with portable P.A. systems, or for use in permanent institutional sound systems. Uses a high-efficiency Tuned RF circuit having a total of four-tuned circuits to provide greatest possible sensitivity with very good selectivity. Calibrated linear dial with 5 1/2" scale. Tuning range covers broadcast band from 530 KC to 1600 KC. RF coils are shielded Ferrocort type. Has full AVC with minimum hum level. Built-in power supply. Has monitoring jack on front panel for headphones. Output impedance from low-gain coupling stage is 2500 and 10,000 ohms. Has both volume and tone controls. Housed in black wrinkle-finished steel cabinet 8 1/4" x 8 3/4" x 12 1/2". Uses 3—6K7, 1—6H6, 1—6F8G, and 1—5Z4 tubes. For 110 volts, 60 cycles A.C. Wt., 11 lbs. Supplied completely wired, ready for use. Furnished with tubes.

B9852. **\$37⁹⁷**

NET PRICE.....91



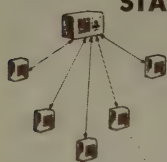
Knight INTERCOMS



**AUTOMATIC • DEPENDABLE • INSTANTANEOUS SYSTEMS FOR EVERY PURPOSE
FOR OFFICES • HOMES • GARAGES • WAREHOUSES • PARKING LOTS • HOSPITALS, ETC.**

STANDARD CALL SYSTEMS

ECONOMY MASTER SELECTIVE



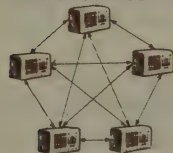
System consists of a master station and from one to five sub-stations. Master station may call any sub-station individually for private conversation, or all sub-stations at once for paging purposes. Any sub-station may call or answer the master station. Person at sub-station may answer as far as 25 ft. from instrument. Will operate efficiently with as much as 2000 ft. of cable between units. One master and one sub-station may first be installed and other sub-stations added as needed. Has all these outstanding features: **Silent Operation**, shuts out disturbing noises from sub-stations. **Variable Volume**, from a whisper to sufficient volume to carry 25 ft. **Amazing Economy**, costs only 15c per month for electric power. **Life-Like Tone**, for pleasant, easy conversation. **Attractive Design**, Master Station housed in walnut cabinet, 9 3/4" long, 5 3/4" deep, 8" high; Sub-Stations have metal cabinets only 5 3/4" x 3 3/4" x 7". For 110-115 volts AC or DC.

B12337. 1 Watt Master Station. Shpg. wt., 12 lbs. **\$13.95**
NET PRICE, complete with tubes and instructions.
B12338. Sub-Station Unit Complete. Shpg. wt., 5 lbs. **\$4.95**
B12339. Connecting Cable. **NET PER 10 FEET**..... **19c**

MASTER STATION FOR 10 SUB-STATIONS identical to Master Station described above, but for use with any number of sub-stations from one to ten. Use above sub-stations and cable. **\$17.95**

B12300. Shpg. wt., 12 lbs. NET..... **\$17.95**

SUPER SELECTIVE SYSTEMS



System consists entirely of master stations, from two to five. Any station may converse with any other station with complete privacy. Eavesdropping is impossible. Two complete conversations may be maintained at the same time without cross talk. 2000 ft. of cable may be used between units. System may be installed with only two stations and others added as required. Has all these outstanding features: **NEW Amplifier Design**, reproduces voice with remarkable clarity. **Variable Volume**, can be adjusted at each station, from a whisper to sufficient volume to carry 25 ft. **Operates from 110 Volts AC or DC.** Housed in walnut cabinet, 9 3/4" x 5 3/4" x 8". Shpg. wt., 12 lbs.

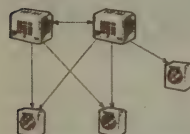
B12324. 1 Watt Super-Selective Station, Complete. **\$15.95**
NET EACH.....
B12325. Connecting Cable for up to 5 station units. **PER 10 FT. 50c**

10 STATION SUPER-SELECTIVE UNIT, identical to above, but for any number of stations from two to ten. 12 lbs. **\$17.95**

B12301. NET..... **\$17.95**

B12348. Cable for up to 10 station units. **PER 10 FT.**..... **75c**

NEW COMBINATION SYSTEMS



A new low-cost system which permits greater flexibility than any other system at the same price. Consists of Master Stations and Sub-Stations in any combination, not to exceed five units in all. Master stations may call any master or sub-station, sub-stations may answer but cannot originate calls. All masters may have sub-stations in common or any master may have individual sub-stations. A typical installation is illustrated in the diagram. Two masters have two sub-stations in common, and one of the masters has a sub-station of its own. The first master cannot listen in to this single sub-station. Stations are identical in appearance with B12337 and B12338 above. For 110 volts AC or DC. One of the most versatile Intercommunication Systems available.

B12302. 1 Watt Master station. Complete with tubes and instructions. Shpg. wt., 14 lbs. **\$17.95**
NET EACH.....
B12304. Sub-Station Unit Complete. Shpg. wt., 6 lbs. **\$4.50**
B12305. Cable for connecting master stations. **NET PER 10 FT. 58c**
B12307. Cable for connecting sub-stations to master. **10 FT.**... **15c**

MASTER STATION FOR 10 UNIT COMBINATION SYSTEM. Identical to above but any combination of 10 units may be used, consisting of any number of masters and any number of sub-stations. Use sub-stations and cable listed above. Shpg. wt., 15 lbs. **\$19.95**

B12303. NET..... **\$19.95**

B12306. Connecting Cable for 10 unit masters. **PER 10 FT. 93c**

DE LUXE CALL SYSTEMS

DE LUXE MASTER SELECTIVE. System consists of one Master Station and up to 10 Sub-Stations. System may be built progressively, starting with one master and one sub-station and adding other units as required. The master station can call any sub-station individually for privacy, or can call all sub-stations at once for paging purposes. Any person within 50 ft. of any sub-station may answer without leaving his work. Operates efficiently with up to 2000 ft. of cable between units. Has these outstanding features: **Silent operation**, shuts out disturbing noises at the master which originate at the sub-stations. **Variable Volume**, controlled at the master station, permits adjusting from a whisper to sufficient volume to carry 50 ft. **Amazing Economy**, costs only 20c per month for electric power. **Life-Like Tone**, voices are so clear that you can recognize the individual speaking. **Attractive Design**, stations are housed in smart walnut cabinets. Size of master, 11 1/4" x 6" x 7 3/4". Sub stations, 7 3/4" x 7 1/4" x 4". For 110 volts AC-DC.

B12342. 2 1/4 Watt Master Station (without earphone). With tubes, junction box and instructions. Shpg. **\$24.50**
wt., 14 lbs. **NET PRICE**.....
B12345. As above but with privacy earphone. **NET**... **\$31.95**
B12343. Sub-Station Unit Complete. Shpg. wt., 6 lbs. **\$7.95**
B12344. Connecting Cable. **PER 10 FEET**..... **35c**

DE LUXE SUPER-SELECTIVE. Finest of all intercom systems. Offers the versatility of a telephone system, plus low cost installation. The system consists of all master stations, from two to ten. Any station may call or answer any other station. Permits up to five 2-way private conversations simultaneously without interference or cross-talk. Volume may be controlled at each station from a whisper to sufficient volume to carry 50 ft. Silencing feature eliminates all noise when actual conversation is not taking place. In handsome walnut cabinet. Size, 11 1/4" x 6" x 7 3/4". Operates from 110 volts, AC or DC.

B12346. 2 1/4 Watt Super-Selective Station. With tubes, junction box, 6 ft. cable and instructions. Shpg. wt., 14 lbs. **\$24.50**
NET EACH.....
B12347. As above, but with privacy earphone. **\$31.95**
B12348. Connecting Cable. **PER 10 FEET**..... **75c**

POWER STAGE UNITS IDEAL FOR THE NOISIEST LOCATIONS



Power amplifying units with built-in speakers for use with any type of intercommunication system. Permit paging in factories, hotels, warehouses, outdoors, or in fact anywhere in locations where normal noise level is high. Any number of these power amplifier units may be connected together, operating off one channel of the master. Power stages can be located wherever required at distances up to several hundred feet from each other or the master station. Extra speakers may be connected to the amplifiers when it is desired to have more than one voice outlet in a room or in factory or shop installations where greater coverage is required because of existing noise level. B12308 delivers 15 watts output, sufficient for the noisiest factory. B12309 delivers 5 watts, ideal for hotels, etc., where noise level is not as high. B12320, communicator, permits the person paged to call the master station for two-way conversation. Both power stages and communicator are housed in metal cases. Power stage size: 12" x 12" x 7"; Communicator: 5 3/4" x 3 3/4" x 6". Power units are for 110 volts, 60 cycles AC. Ideal for big-power paging and public address requirements.

B12308. 15-watt Amplifier Unit. **\$22.50**
With tubes. Shpg. wt. 20 lbs. **NET**.....
B12309. 5-watt Amplifier Unit Complete. **\$16.95**
With tubes. Shpg. wt., 15 lbs. **NET**.....
B12320. Communicator Unit Complete. Shpg. wt., 6 lbs. **\$4.95**
B12310. Extra speaker for power stages, in metal cabinet. **\$7.95**
B12321. Cable for connecting Amplifiers to Communicators. **\$19.95**
PER 10 FEET..... **15c**
B12339. Cable for connecting Communicator with Master. **\$19.95**
PER 10 FEET..... **19c**

We can supply special intercommunication or paging systems for all requirements. Address your inquiry to our Sound Engineering Dept., giving full details of your requirements. Prices and information will be furnished promptly without charge or obligation. We are specialists in supplying Intercommunication and Paging Equipment.

COMPLETE RECORDER SYSTEMS



BRUNO PORTABLE RECORDER

Anyone can operate this complete recorder. Records voice and music from microphone, and radio programs from radios. Records on all discs, acetate or aluminum, up to 12" dia. at 78 RPM. 110 grooves per inch, from outside to inside. Bruno magnetic cutting head has a range from 50 to 5000 CPS. Has adjustment for depth of cut and indicator showing depth. Astatic Crystal Pickup supplied for playing back recordings. Latest G.E. Recording Motor with heavy turntable. Built-in genuine 6" Jensen Speaker. Built-in 5-watt Amplifier, designed especially for recording, using 1-6J7, 1-6Q7, 1-6N6G, and 1-5Y4C. Illuminated volume control meter, Shure Crystal Microphone, floor stand, and 25' cord and plug. Recorder housed in brown airplane carrying case, 20" x 17 1/2" x 11 1/2". All cables have plugs attached for quick, easy connection of units. Complete, ready to use, with instructions. For 110 volts, 60 cycles.

\$139.85

B16230. Model RA. NET.....

Terms: \$13.98 down, \$17.31 mo. for 8 mos.

B16231. Model RA above, less microphone and stand. NET.....

\$126.56

Terms: \$12.66 down, \$15.67 mo. for 8 mos.

16" PROFESSIONAL RECORDER

B16232. Bruno Model BR-16A. Dual speed 16-inch recorder, 33 1/3 and 78 RPM. With 10 watt amplifier and 10" speaker. Ideal for professional recording studios, schools, agencies, etc. Less microphone and stand. **NET**.....

\$327.07

Terms: \$32.70 down, \$40.47 mo. for 8 mos.

FAMOUS PRESTO RECORDING SYSTEMS

MODEL K-6

A new moderate-priced lightweight, portable recorder designed especially for use by music and voice teachers, smaller schools, business firms, and homes. Applications include speech correction and musical training work, records of business conferences, talks, lectures, etc. Grooves and records sound simultaneously. Has 12" turntable with exclusive rubber-tire drive for recording on discs up to full 12" size at 78 RPM. Feed mechanism cuts 100 lines per inch, inside to outside. Equipped with magnetic cutter head and high-fidelity magnetic pickup; 10" loud-speaker is mounted in the detachable cover of carrying case. Supplied with high-quality Shure crystal microphone mounted on floor stand and equipped with 25-foot cable. May be used as public address system in smaller rooms or as a record-player. Amplifier has output of 3 watts; response 50-8000 CPS. Uses 1-6F5, 1-6SF5, 1-6N7, 2-4S, 1-80 tubes. Case is gray airplane cloth covered and measures only 19 1/2" x 15 1/2" x 14". Here is a complete recorder, phonograph, and PA system in one, at moderate cost. Operating wt., only 46 lbs. With instructions. For 110 volts, 60 cycles AC. Shpg. wt., 59 lbs.

B16220. Model K-6 Recorder complete. NET.....

\$208.00

Terms: \$20.80 down, \$25.74 mo. for 8 mos.

B16221. Model K-7. Same as K-6 above but dual-speed, 78 and 33 1/3 RPM.

\$223.00

Complete, ready to use. **NET**.....

Terms: \$22.30 down, \$27.59 mo. for 8 mos.

MODEL Y

The ideal professional recorder for use in schools, broadcasting stations, agencies, and recording studios. Will cut any disc up to 17 1/4" at either 78 or 33 1/3 RPM. Cuts 112 lines per inch, either inside to out or outside to in; also cuts spiral finish groove so that recordings can be played with automatic record changer. Type I-C magnetic cutting head has uniform response from 50 to 8000 CPS. Wide-range magnetic playback pickup. Turntable rim driven by powerful motor. Recorder is housed in case, 20" x 11" x 19"; separate case contains amplifier and 10" PM speaker. Amplifier has 10 watts undistorted output; has high and low frequency equalizers, mixer for two microphones and phono, V1 meter, monitoring jack, and selector switch for recording, playback, or PA. Amplifier-speaker case, 23 1/2" x 12" x 20". Recorder case, 20 1/2" x 19" x 11". Also excellent for use as a portable 16" transcription unit. Total weight, 155 lbs. For 110 volts, 60 cycles.

B16222. Model Y-2. Complete, less microphone and stand. NET.....

\$595.00

Terms: \$59.50 down, \$73.64 mo. for 8 mos.

B16223. Model Y-4. As above but with low-impedance input. **NET**.....

\$625.00

Terms: \$62.50 down, \$77.35 mo. for 8 mos.

B16224. Model 75-A. Recorder only less amplifier and speaker. **NET**.....

\$350.00

Terms: \$35.00 down, \$43.32 mo. for 8 mos.



For complete listings of recording accessories, discs, needles, microphones, see pages 94-96, 100, 101. Recorder-Radio combination units are shown on pages 22-25



KNIGHT-BRUNO DUAL-SPEED RECORDER

A complete professional-type recorder, phonograph and public address sound system. For recording studios, sound specialists and others who demand a high-quality unit. The Recorder is the Bruno Model BR-12. Cuts from outside-in at 100 lines to the inch, 33 1/3 and 78 RPM. Records on all types of discs, from 6" to 12"; constant-speed motor drives turntable through special idler. Supplied with magnetic cutter head. Recorder is housed in a durable Fabrikoid case, 18 1/2" x 16 1/2" x 13". Bruno Symphonic high-impedance pickup is included for play back of recordings or any commercial record. The **Knight 20 Watt Amplifier** provides more than ample power for the recorder. For public address use it delivers full 20 watts of usable power (26 watts peak); hum is inaudible. Has tapped output—4, 6, 8 and 500 ohms impedance. With Volume Indicator Meter, tone control, and volume control. Microphone gain is 127 DB. Frequency response, 50 to 10,000 CPS. Amplifier size, 16 1/4" x 10 1/4" x 9 1/4". Jensen 12" PM12C Speaker assures finest reproduction; mounted in a split-type carrying case which also houses the amplifier. Case is heavy plywood, covered with attractive Fabrikoid, 22 1/2" x 19 1/4" x 15". Speaker has 30-ft. cable with plug to fit amplifier. A Shure Crystal Microphone with 25 ft. cable is provided. Complete with floor stand. For 110-volt 60-cycle operation. Shpg. wt., 98 lbs.

\$175.00

B16240. NET PRICE.....

Terms: \$17.50 down, \$21.65 monthly for 8 months.

B16243. Complete system as above but has Professional \$295.00

type 16" dual-speed recorder. Shpg. wt., 104 lbs. **NET PRICE**.....

Terms: \$29.50 down, \$36.50 monthly for 8 months.

RECORDERS ONLY

B16241. Model BR-12 Recorder only, as used in B16240 system above. Shpg. wt., 44 lbs. NET.....

Terms: \$13.19 down, \$16.33 monthly for 8 months.

B16242. Model BR-16 Bruno Dual-Speed Recorder only, as used in B16243 system above. Shpg. wt., 50 lbs. NET.....

Terms: \$25.35 down, \$31.38 monthly for 8 months.

KNIGHT LOW-COST PORTABLE RECORDER

A brand new, unusually low-priced complete recorder. Actually three instruments in one: (1) a well-designed, easily-operated recorder; (2) an efficient record player; (3) a complete Public Address system including microphone, amplifier, and speaker. Has innumerable uses in homes, schools, camps, clubs, etc. Enables you to make your own records of speech, singing, etc., or when used with any radio set, to record your favorite radio programs. Plays back your own recordings as well as all standard 10" or 12" phonograph records. When used as a Public Address amplifier, develops full 3 watts power output. Employs crystal cutting head and crystal playback pickup. Cuts records up to 10" in diameter, outside to inside, grooving 110 lines per inch. Adjustment for cutting depth conveniently located on top of cutting arm. Equipped with powerful induction motor of special design with internal rim drive to turntable; maintains constant 78 RPM speed.

COMPLETE—READY FOR IMMEDIATE USE

The **Knight Portable Recorder** is supplied complete, ready for operation at once. Has sensitive Shure crystal microphone with desk stand. An efficient 6" Electro-dynamic speaker is mounted at front of case. Recording accessories supplied with each unit include: 1 pkg. of six 6" blank discs; 1 steel cutting needle; 1 pkg. playback needles. Uses: 1-6J7GT Pre-amplifier; 1-6Q7GT Driver; 1-6K6GT Output; 1-5W4 Rectifier; 1-6U5 Electric Eye Volume Indicator. All controls conveniently placed: has selector switch for instant shift from "Recording" to "Playback" or "PA"; combination Volume control and on-off switch; Tone control; and separate motor switch. Housed in a durable, attractive carrying case finished in striped airplane luggage cloth; size: 16 1/2" x 14" high. For operation from 110 volts, 60 cycles AC. Shpg. wt., 40 lbs.

B16235. Knight Portable Recorder complete with microphone, tubes, speaker, amplifier, and recording accessories listed above, ready to operate. NET.....

\$425.00

(Note: For Recorder only, less microphone, speaker, amplifier, and accessories, see B16236, page 95.)

COMPLETE SELECTION OF RECORDING BLANKS



Here is the largest selection of nationally famous recording discs available today. ALLIED'S stock of high quality discs is complete and fast-moving—assuring you of fresh discs and prompt service always. Write for quantity prices.

HIGHEST QUALITY PROFESSIONAL BLANKS

The finest professional recording blanks made today. Especially designed to meet the most exacting requirements of commercial recording studios, broadcast stations, and other professional users. Discs have base of finest aluminum with mirror-smooth coatings absolutely uniform in thickness. Produced to rigid specifications to assure clean cutting, minimum surface noise, excellent high frequency response, and long playback life.

FAMOUS PRESTO DISCS

"GREEN SEAL"

Coated with a special Presto "Q" material finished to a mirror smooth surface that permits clean cutting with very little friction. Extremely low surface noise. Has an extra heavy aluminum base of the cleanest metal obtainable. A widely used disc.

No.	Dia.	Thick	Wt.	NET
B8033	6"	.051"	6 oz.	\$0.40
B8034	8"	.051"	10 oz.	.55
B8035	10"	.051"	10 oz.	.50
B8036	12"	.051"	14 oz.	1.00
B8165	16"	.064"	20 oz.	2.00

OVERSIZE Q "GREEN SEAL"

Used extensively for making master records for processing. Discs are 1 1/2" larger than standard size records to allow for requirements of pressing process.

B8039	11 1/2"	.079"	2 lbs.	\$1.25
B8040	13 1/2"	.079"	2 lbs.	1.80
B8041	17 1/2"	.079"	3 lbs.	3.00

"Q" ORANGE SEAL DISCS

For high quality reproduction. Identical in every respect to Presto "Q" "Green Seal" discs except for slightly thinner aluminum base. Very low surface noise; good frequency response. Center has label.

B8150	6"	.036"	6 oz.	\$0.40
B8151	8"	.036"	10 oz.	.55
B8152	10"	.036"	10 oz.	.80
B8153	12"	.036"	14 oz.	1.00
B8154	16"	.051"	20 oz.	2.00

Write for Special Quantity Discounts to Studios, Schools, etc.

SEMI-PROFESSIONAL AND HOME TYPE DISCS

The discs listed below are especially suited for recording "off-the-air" programs, performances of speech and music students, home entertainments, etc. Can be used with all types of recorders including the new home combinations.

PRESTO "BLUE SEAL"

A light weight aluminum base disc with uniform nitrate surface on either side. Each disc has a label. Individual envelopes.

No.	Dia.	Thick	Wt.	NET
B8105	6"	.025"	6 oz.	25c
B8106	8"	.025"	8 oz.	40c
B8107	8"	.025"	10 oz.	60c

PRESTO MONOGRAM DISCS

Low-priced high quality discs. Consist of an even coating of Presto "Q" material on high grade composition base. Ideal for schools and home recording. Thickness, .05".

No.	Size	Wt.	EACH
B8185	6"	4 oz.	20c
B8186	8"	6 oz.	35c
B8187	10"	6 oz.	50c
B8188	12"	8 oz.	70c

Quantity users—Write us for attractive special discounts.

KNIGHT RECORDING DISCS

Coated both sides, cardboard base; mirror-smooth. Excellent frequency response. Low surface noise. Non-inflammable. With labels. Av. wt., 2 lbs. per pkg.

No.	Dia.	Quantity	NET
B8045	6"	Pkg. of 6	\$0.47
B8046	8"	Pkg. of 6	1.00
B8047	10"	Pkg. of 6	1.18
B8048	12"	Pkg. of 6	2.55

WILCOX-GAY RECORDIO DISCS

For home recorders. Double-faced, excellent recording quality. Coated, non-inflammable, flexible discs. With labels. Av. wt., 2 lbs. per pkg.

No.	Dia.	Quantity	NET
B8110	6 1/2"	Pkg. of 6	\$0.60
B8111	8"	Pkg. of 6	1.00
B8112	10"	Pkg. of 6	1.50

Dealers—write for attractive quantity price quotations on above discs.

NEW AUDIODISCS

Surface coating on a highly polished aluminum base is applied by a special patented process that produces a flat surface accurate within ±.0005 inch. The coating is treated with extreme care to eliminate any foreign particles, thereby reducing surface noise. An unusually curly thread, free from static charges, is obtained while cutting and "kicks" strongly toward the center. Because of special curing process, discs will never dry out. Packed in special metal containers. Special quantity discounts to commercial users, schools, etc.

YELLOW LABEL DISCS

No.	Dia.	Thick	Wt.	NET
B8100	6"	.037"	6 oz.	\$0.40
B8101	8"	.037"	10 oz.	.55
B8102	10"	.046"	10 oz.	.80
B8103	12"	.046"	14 oz.	1.00
B8104	16"	.054"	20 oz.	2.00

LOW-PRICED ACETATE PROFESSIONAL DISCS

A low priced disc for broadcast and recording studios. Uniform coating. Double faced. Acetate surface applied to a heavy aluminum base. For high amplitude recording. Low surface noise. With label. Wt., 6 to 20 oz.

No.	Dia.	Thick	NET EACH
B8014	6"	.037"	29c 25-Up
B8015	8"	.037"	38c 34c
B8016	10"	.046"	55c 49c
B8013	12"	.046"	68c 61c
B8018	16"	.054"	\$1.32 \$1.20

LIGHTWEIGHT ECONOMY DISCS

Inexpensive aluminum base acetate discs. Double-faced. Av. wt., 10 oz.

No.	Dia.	NET EACH
B8050	6"	15c 13c
B8051	8"	22c 19c
B8052	10"	30c 26c
B8053	12"	48c 43c

CARRATONE PLASTIC DISCS

A plastic non-inflammable disc on a cardboard base. Each side is labeled. Packed individually. Impervious to moisture and temperature. Av. wt., 2 lbs. per pkg.

No.	Dia.	Quantity	NET
B8115	6 1/2"	Pkg. of 6	\$0.49
B8116	8"	Pkg. of 6	.85
B8117	10"	Pkg. of 6	1.20

HEAVY-DUTY STEEL BASE DISCS

Non-inflammable coating on steel base. Permits uniform cut. 6 1/2" and 8"—.032". 10" and 12"—.036". Double face. 1 lb.

No.	Dia.	NET EACH
B8120	6 1/2"	14c 12c
B8121	8"	21c 18c
B8122	10"	29c 24c
B8123	12"	41c 36c

ALUMINUM DISCS

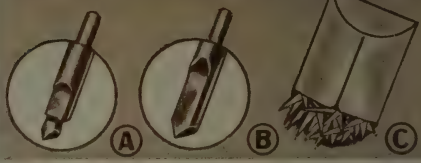
Of hardened aluminum alloy; mirror-polished. Long life, maximum volume.

No.	Dia.	NET
B8005	6"	16c
B8006	8"	23c
B8007	10"	39c
B8008	12"	55c

RCA PREGROOVED DISCS

B8055	6"	Pkg. of 4 .75c
B8056	10"	Pkg. of 2 .75c
B8057	12"	EACH .68c

QUALITY RECORDING NEEDLES



SELECTING THE RIGHT NEEDLE

SAPPHIRES have the finest point. Take a fine polish are low friction type. Can be resharpened. Give 5 hour service; prove most economical. **STELLITE**, hard metal alloy, costs less. Grooves about as well as sapphire. 2 hour service. Can be resharpened. **STEEL**, Recommended where cost is a major consideration. While cut is not as silent and shiny as obtained from sapphire, it is satisfactory for many purposes. Cannot be resharpened. Service, 20 minutes of cutting.

SAPPHIRE NEEDLES—FIG. A

Precision-ground and polished, high quality sapphire cutting needles. Have long life and excellent fidelity.

B2603.	For blank aluminum discs.	\$2.20
List.	\$4.00 EACH	
B2604.	For pregrooved aluminum and composition discs. List, \$4.00 EACH	\$2.20
B2605.	For all Acetate or other semi-plastic discs. List, \$6.00 EACH	\$3.40

PRESTO SAPPHIRE NEEDLES—FIG. A

B2606. Highest quality, sharpest recording needles available. Accurately ground and polished. For use on acetate discs. EACH \$6.00

B2607. Have same high-quality genuine sapphire points as B2606, but with long shank to fit Presto Professional Recording head. EACH \$6.00

We resharpen sapphire needles at \$1.95 each.

STEEL CUTTING NEEDLES—FIG. B

Flat shank steel needles. Special alloy steel hand-polished to a razor edge. For cutting coated discs. B8135. For 78 or 33 1/3 R. P. M. Fig. B. 59c

B8139. Diamond-cut polished steel needle. Twice the life of most steel needles. 95c

PACKAGE OF 5, NET. 1.00

B8125. Presto long shank for use in Prof. 1B head. PKG. OF 3, NET. 1.00

B8126. Presto short flat shank for use in Audak heads. PKG. OF 3, NET. 1.00

B8133. RCA Victor Steel Home Recording Needles. For pregrooved discs. Pkg. of 8. 25c

STELLITE CUTTING NEEDLES—FIG. A

A fine quality steel recording needle made of a special high tensile alloy called stellite. Cuts all coated blanks with a minimum of surface noise.

B8127. With long point. Can be resharpened for 50c. NET EACH. 89c

B8128. Short; cannot be resharpened. NET EACH. 60c

B2602. Permo alloy low-cost professional cutting needle. 3 to 5 hours service. NET. \$1.18

PLAYBACK NEEDLES—FIG. C

FOR ALUMINUM DISCS

B8130. BAMBOO NEEDLES. Pkg. of 100 .45c

B8131. KACTI NEEDLES. Pkg. of 12 .29c

FOR COATED BLANKS

B2600. SAPPHIRE PLAYBACK NEEDLES. Plays 6000 to 10,000 records. NET. \$3.60

B2622. "WALCO" SAPPHIRE NEEDLE. More than 2500 plays. Does not wear records. EACH .98c

B8132. RED SHANK STEEL NEEDLES. .002" at point. Pkg. of 100 .38c

B8135. WILCOX GAY NEEDLES. For home recording playback. Pkg. of 50. 10c

B8136. SPECIAL TRANSCRIPTION NEEDLE. A semi-permanent metal alloy needle. Gives 50 hour service. NET. 69c

RECORD-MAKING ACCESSORIES

Increased record life and reduced surface noise are assured by proper use of the lubricants listed below.

B8060. Cutting Lubricant. For application to disc surface before record is cut. Reduces surface noise by lowering friction of cutting stylus. For acetate or aluminum discs. In 2 oz. bottle. NET. 29c

B8059. Record Permtersier. For application to disc after cutting. Polishes and seals off surface to lengthen record life. In 2 ounce bottle. NET. 29c

MAILING ENVELOPES FOR DISCS

Heavy envelopes with cardboard inserts, flap and sealing string.

B8190.	For 6" disc. Per Dozen	35c
B8191.	For 8" disc. Per Dozen	49c
B8192.	For 10" disc. Per Dozen	69c
B8193.	For 12" disc. Dozen	\$1.10

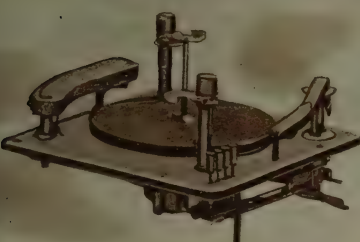
RECORD LABELS

B8031. Gummed record labels with spaces for title, date and recorder. Fits all discs. 25c

NET (50 Labels) .175

See pages 30 and 31 for other needles and accessories.

BASIC RECORDING EQUIPMENT



WEBSTER-CHICAGO AUTOMATIC CHANGER WITH RECORDER

The latest design and engineering skill have been combined to bring you convenience and enjoyment in recording and phonograph equipment. A new and complete record changer and recorder on one table. Will play automatically ten 12" or twelve 10" records. Will also record any acetate or plastic disc up to 10" at 98 lines per inch or 3 1/4 minutes. Permits manual or automatic playback of commercial records and manual playback of self-recorded records. Motor speed, 78 RPM. Special design-clutch allows immediate setting of cutting needle at starting edge or at any point on the record. Has worm reduction type drive mechanism. Size: 15 1/2" x 14 1/2", extends 5" below and 5 1/2" above mounting plate. Has crystal pickup and cutter; cutter should be fed from amplifier with 3 watts output at 10,000 ohms. The entire unit is finished in brown wrinkle. Less cord. Shpg. wt., 30 lbs.

B16252. NET

\$3234

DELUXE MODEL

Same as above but plays 15 to 17 mixed 10" and 12" records. Records up to 10" blanks at 78 RPM. 13 1/4" x 17 1/2". Less cord. Shpg. wt., 35 lbs.

B16253. NET

\$44.10

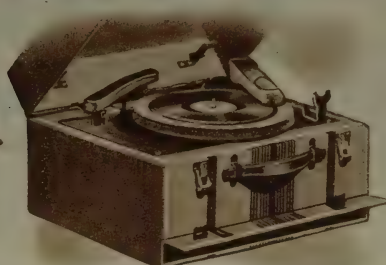


BRUNO BASIC RECORDING & PLAYBACK UNIT

A precision built 2-speed recording and playback assembly suitable for voice, music or off-the-air recording. Incorporates every desirable feature: Constant-speed G.E. motor (110 V. AC, 60 cycles) with floating power suspension. Rim-driven, 12" heavy cast aluminum turntable covered with live rubber pad. Wide-range 15 ohm magnetic type recording head, highly damped. Will not deteriorate at high temperature nor in humid atmospheric conditions. Has high impedance crystal type pickup. Motor board has leatherette covering. Motor is equipped with an automatic idler-to-turntable drive which increases grip proportionate to load, thus reducing "wows" to a minimum. For 78 and 33 1/3 RPM. Recording head cuts outside-in at 110 lines per inch. Will cut acetate or aluminum discs up to 12" diameter. Has adjustments for depth of cut and change of angle. Entire unit can be fitted into a cabinet 5 1/2" deep, 16 1/4" long and 16" wide, with a cover 3 1/4" deep. The unit is very simple to install. The parts are carefully mounted and adjusted. This unit can be connected to any amplifier or radio with 2 or more watts output. Quality-built throughout to give exceptionally fine recording and playback results. Remarkably low-priced for an instrument of this type. Shpg. wt., 16 lbs.

B15800. NET

\$44.10



KNIGHT PORTABLE RECORDER & PLAYER UNIT

Add a recorder-record-playing unit to your present amplifier or radio. Operates with any amplifier for music or speech recording; records programs "off the air" with any radio; plays records up to 12" diameter; cuts records up to 10" diameter. (For microphone use with radio see unit below.) Features include: High quality crystal cutting head with transformer which connects to any 4-8 ohm voice coil circuit supplying 3 watts of power; cutting-playback switch; 78 RPM induction motor with rim drive to turntable. Records outside-in at 110 lines per inch. Has high impedance crystal pickup, new Neon Volume Indicator, head-phone jacks. Mechanism is on metal mounting plate 15" long, 10" wide. In airplane luggage carrying case 17 1/2" long, 13 1/4" wide, 11 1/4" high; with compartment for records. For 110 V. 60 cycle AC. Shpg. wt., 20 lbs.

B16236. NET

\$27.95

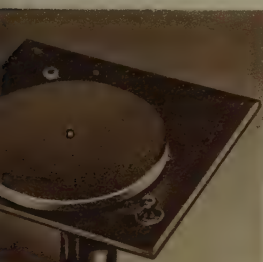
B16234. Same as above but complete with crystal hand mike, built-in 6J7GT pre-amplifier for recording from microphone through any radio. Shpg. wt., 25 lbs.

\$35.95

B15802. Basic Recording Mechanism Only. Same as B16236, but less case, indicator, trans. and change-over switch. Wt., 15 lbs.

NET

\$18.50



KNIGHT RECORDING & TRANSCRIPTION MOTOR

A dual-speed heavy-duty playback chassis that is also suitable for recording. Includes: 12" heavy cast aluminum turntable covered with live rubber pad. A constant speed G.E. motor for 110 volts AC, 60 cycles. The motor is built to rigid specifications for precise quiet operation. Motor board with a black leatherette covering. The turntable is rim driven and turns at 78 or 33 1/3 RPM. The turntable is carefully aligned to assure a minimum of "wows". Speed is changed by lifting a pulley operated by a control on the motor board. A switch and automatic derel are mounted on the motor board. Motor has floating power suspension. For portable or permanent installations. This is a carefully constructed assembly for superior performance with any type of recording or playback arm. The entire unit can be fitted into a cabinet 5 1/2" deep, 16 1/4" wide and 16" long, with a cover 2 1/2" deep. Shpg. wt., 11 lbs.

B16238. NET

\$19.85



KNIGHT 20 WATT RECORDING AMPLIFIER

A high-quality amplifier suitable for use with all types of recorders. Incorporates the very latest circuit design. Inverse feedback imparts triode characteristics to output tubes. With new illuminated, slanted control panel. Has three input channels, one for any high gain microphone with separate control and two for phono with fader control. Also has bass-treble tone control. 20 watts output (26 watts peak). Output is 4, 6, 8 and 500 ohms on selector switch. Response, 50-10,000 CPS. Mike gain, 127 DB; phono, 78 DB. Volume indicating meter is optional and can be installed very easily. Tubes: 1-6SJ7, 1-6SC7, 2-6L6G, 1-5U4G. Fused, for operation from 110-120 volts, 60 cycles AC. Size: 16 1/4" x 10 1/4" x 9 1/4". Less tubes and V.I. meter. Shpg. wt., 25 lbs.

B16239. NET

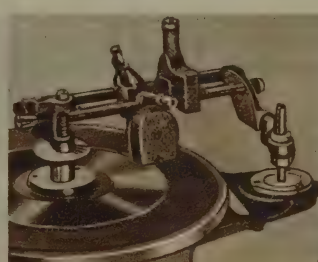
\$24.50

B15953. Tube kit.

\$3.47

B15830. Knight Recording V.I. Meter. NET

\$7.95



REK-O-KUT RECORDING UNITS

Practically designed units for low-cost recording. Make professional recordings that compare with commercial phonograph records quickly and easily with the Rek-O-Kut. No technical knowledge required. Use with motors listed below or types described on page 99.

Quality recording mechanisms. Each includes cutting head, carriage, drive mechanism, and feed screw. For use with any good recording motor. May be connected to any radio set or amplifier having 3 watts or more output. Will record, outside-to-in, on all coated discs at 110 lines per inch. Have new chip collector which prevents thread from tangling with cutting needle; simple lever allows lowering or raising cutting head. Oper. can make spiral cut at start or end of record. Response of magnetic heads, 50-3500 CPS. Less motor. 12"-8 lbs.; 16"-11 lbs.

WITH MAGNETIC CUTTER HEAD

12 INCH MODELS

B15815. 8 OHMS.
B15816. 500 OHMS.
NET EACH

\$29.50

16 INCH MODELS

B15817. 8 OHMS.
B15818. 500 OHMS.
NET EACH

\$36.00

WITH CRYSTAL CUTTER HEAD

See page 96 for full description of crystal heads and selection of proper matching transformer. Excellent for Constant Amplitude recording.

B15819. ASTATIC HEAD.

NET

B15821. ASTATIC HEAD.

NET

B15820. BRUSH RC-20

HEAD. NET

B15822. BRUSH RC-20

HEAD. NET

NEW RK RECORDING MOTOR ASSEMBLIES

Each assembly includes motor, cast-iron rim-driven turntable, and cast-iron motor plate. Plate is machined to support Rek-O-Kut mechanism, turntable and motor. Less Rek-O-Kut mechanism.

B15825. 12 in. 78 RPM. For motor board 16 1/2" x 14 1/2"; 4" above. 3 1/2" below. Shpg. wt., 27 lbs. NET

\$27.50

B15826. 16 in. 78 x 33 1/3 RPM. For motor board 23 1/2" x 21 1/2"; 5" above. 7 1/2" below. Shpg. wt., 37 lbs. NET

\$92.50

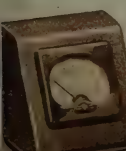
RK FEED SCREWS. 120 line per inch feed screws. Interchangeable on all standard Rek-O-Kut units above. Specify inside-out or outside-in.

B15823. 12 inch Model. 1 1/2 lbs. NET

\$10.50

B15284. 16 inch Model. 2 lbs. NET

\$12.50



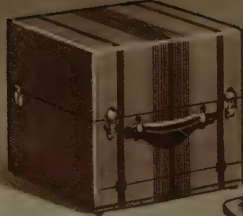
KNIGHT RECORDING V.I. METER

3" square bakelite meter, 0-30 DB. For 8 and 500 ohm magnetic heads, or crystal cutters with transformers. Meter case finished in gray enamel. Case: 4 1/4" x 4 1/4" x 4 1/4". Meter hole, 2 1/4".

B15830. Meter only. Wt., 2 lbs. NET

\$7.95

B5739. Case only. Wt., 1 lb. NET



WEBSTER-CHICAGO

AUTOMATIC RECORD CHANGERS

GARRARD RC-10 CHANGER

This Garrard Automatic Record Changer-Player reflects the master craftsmanship and care used in building an instrument which has earned the reputation of being one of the world's finest automatic record changers. Intricate parts are machined and fitted with the precision of a fine watch; yet modern factory production methods have brought the cost of this record player to a remarkably low figure. In operation it is a marvel of simplicity. It will play eight records, either 8" or 10", of any make automatically, providing a full half hour of musical entertainment without interruption. Enjoy the music you want when you want it. Record changing mechanism is designed to eliminate any possibility of marring or damaging records. This changer features automatic stop, tangent pickup arm, automatic rejection knob, non-slip spindle, and spring mounting for the elimination of acoustic feedback. The unit is silent and smooth in operation. High impedance crystal pickup incorporates finest Piezo electric cartridge available; response 40 to 8000 CPS. Garrard's powerful 78 RPM motor is used with its phosphor-bronze bushings, bearings and fittings. Rotor bearings are of the self-lubricating type, requiring only a few drops of oil after 1000 hours of use. Speed regulator allows wide variation in speed (60-90 RPM). Overall dimensions, with records loaded, are: 15" long, 11 3/4" wide, 4 1/2" clearance above plate and 4 1/2" below. Wt., 30 lbs.

B16255. Garrard Model RC-10 Changer.
For 100-130 volts, 60 cycles, AC.

\$32.34

YOUR NET PRICE.....

PORTABLE CASE FOR GARRARD CHANGER

B16350. Airplane luggage type carrying case for the Garrard RC-10 Record Changer listed above. Has compartment for carrying records. Sturdy leather handle. Overall size 15 1/2" w. x 12 1/2" d. x 12 3/4" h.

\$6.95

WEBSTER RECORD CHANGER

One of the finest automatic record changers manufactured. Operates at 78 RPM. The mechanism plays either ten 12" records or twelve 10" records automatically. Has four control buttons—one for playing 12" records, one for 10" records, one for changing from automatic to manual control, and one for rejecting. The compact size of the unit permits installation in limited space. Overall dimensions are only 14" wide by 14" long. The automatic mechanism extends 5 1/2" above mounting plate and 5" below mounting board. Complete with high impedance crystal pickup for high fidelity reproduction. For 110-volt, 60 cycle current. Shpg. wt., 25 lbs.

B16250. Model 5570.

NET.....

\$20.29

NEW DELUXE MIXER CHANGER

This new changer embodies many advanced and exclusive principles. Plays from 15 to 17 records, 10" and 12", inter-mixed. Pickup arm has only two-ounce pressure. Heavy die-cast mounting plate. May be manually operated. Record reject. With high impedance crystal pickup, and on-off switch. Mounting plate, 13 1/2" x 17 1/2". Mechanism extends 5 1/4" above plate and 4 3/4" below. For 110 volt, 60 cycle. Shpg. wt., 30 lbs.

B16251. Model 5590. NET.....

\$32.34

PORTABLE CASES FOR WEBSTER CHANGERS

Attractive airplane luggage cases for the Webster record changers above. Sturdy construction. With compartment for carrying records.

B16351. For Model 5570. 16" x 17" x 13 1/4". NET.....

\$7.25

B16352. For Model 5590. 15 1/2" x 19 1/2" x 13 3/4". NET.....

\$7.65

RECORDING PARTS AND ACCESSORIES

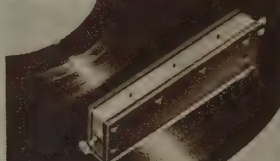
RECORDING HEADS



ASTATIC CRYSTAL RECORDING HEADS

Will cut either "constant-amplitude" or commercial "constant-velocity." Can be used with any amplifier of 3 watts output. Ideal for recording on coated blanks, wax or thermoplastics. Model X-26 requires 75 V. RMS driving voltage with a 5,000 cycle upper frequency limit. Model X-29 with 120 Volt drive records to 6,500 cycles. Number B7549 uses X-26 head with special flange bracket; for replacement in Wilcox-Gay Recordio, G.I., etc., 24" flexible leads. Size, 1 3/4" x 3 1/4" x 3/8". Shpg. wt., 1 lb.

B7545. Model X-26. B7548. Model X-29.
B7549. For Standard Replacement. \$6.76
NET EACH.....



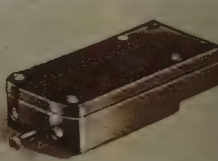
BRUSH CRYSTAL HEAD

A new crystal cutting head designed for high quality at an exceptionally low cost. Stiffness of the drive system makes possible high quality recordings on any type of material. Flat within ± 3 DB. from 50 cycles to 9000 cycles. High operating efficiency. Can be used with any amplifier delivering only 3 watts. A dependable unit. Size 3 1/2" x 1" x 1/4". Shpg. wt. 2 lbs.

B1219.

NET.....

\$11.76



WEBSTER MAGNETIC HEADS

These new heads are outstanding in performance. True knife-edge bearing and advanced armature design give high efficiency. Only 1 watt of driving power required. Range, 30 to 6000 cycles. 8 ohm at 400 cycles. Alnico magnets.

B8092. Fig. A. Model R83. Standard mounting for home recording apparatus. \$7.35

NET.....

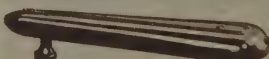
B8093. Fig. B. Model R84. Professional type. Standard 1 1/4" spacing between mtg. holes. \$11.76

NET.....

CRYSTAL HEAD ACCESSORIES

B7546. Matching Transformer. Crystal head to low impedance line. Ratio, 60,000 to 500 ohms. For "constant velocity" response. **\$4.11**

B7547. Recording Equalizer. Fixed network for crystal cutting head. **\$1.47**
NET.....



MAGNA RECORDING AND PLAYBACK PICKUP

Records and plays back from radio or amplifier. Requires only 3 watts. Install on turntable, and radio or mike programs can be recorded and played back. For use with pre-grooved records only. Needle pressure, 3 oz. Response is flat, 60 to 5500 CPS. 10,000 ohm impedance. Length 9". Has statuary bronze finish. Shpg. wt. 1 lb.

B7520.

NET.....

\$2.95

RECORDING BOOKS

B1754. ALLIED RECORDING BOOK. Contains data on selecting recorders, discs, etc. **NET...10c**

B7069. TECHNIQUES OF RECORDING. By Goldsmith & Geisel. 16 chapters. Concise explanation of recording. **NET.....98c**

B7089. HOW TO MAKE GOOD RECORDINGS. Complete Handbook published by Audio Devices. **NET.....\$1.25**



PRESTO RE-RECORDING EQUIPMENT

Add-on turntable and pickup stand. Fits on your present recorder for "dubbing." Rotation of duplicate and original records locked together so playing time and pitch are identical. No "wows" introduced during re-recording since variations occur simultaneously on both tables.

B15805. Model 140-A. Turntable only. NET.....

\$20.00

B15806. Model 142-A. Pickup Pedestal only. NET.....

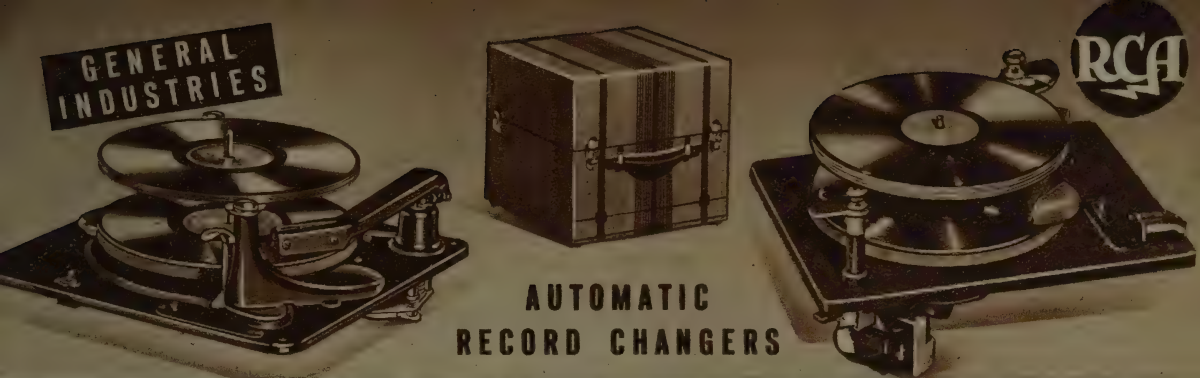
\$5.00

RECORD THREAD REMOVER

Weighted stand mounts along side of turntable, carries a rotary brush which sweeps up thread cut by recording stylus. Prevents thread from interfering with cutter. A recording necessity.

B15810. For 12" to 16" turntable. \$1.98

B15811. For 10" turntable. EACH.....



AUTOMATIC RECORD CHANGERS

NEW G. I. RECORD CHANGER

An exceptionally well-designed automatic record changer which is positive and quiet in operation. Thirty-eight years of development and production of electrical apparatus by the General Industries Company assure the highest quality workmanship and outstanding design in phonograph motors and automatic changers. Plays twelve 10" or ten 12" records automatically. Will furnish up to 50 minutes of uninterrupted entertainment when fully loaded with 12" records. Only a single lever to move when changing from one size record to another or to set for manual operation. With the lever in extreme position any size of record may be removed from the turntable. The tripping mechanism is inoperative when lever is in "Manual" position. Record handling fingers are of the non-jamming type; extend only to edge of record lead-in space, preventing marring of record. Records may be rejected by simply pressing "Reject" button. Tripping mechanism operated by either run-in or oscillating grooves. Means are provided for guiding pickup needle into the playing grooves on records without lead-in grooves. Sturdy base plate, 14" x 14" x 3/4". Mechanism extends 5-7/16" above and 3 1/2" below lower edge of base. High quality, true tangent crystal pickup. Pickup arm is supported at all times when not resting on record. Pickup has excellent frequency response with true high fidelity reproduction. Counter-balance on arm prevents excessive record wear. Pressing the reject button drops the first record onto the turntable and automatically places the pickup in position on the record. Complete with cycling and line switches. 78 RPM. 110 V. 60 cycle AC.

Shpg. wt., 35 lbs.
B16266.
NET.....

\$34.80

PORTABLE CASE. Sturdy airplane luggage type maroon stripe portable case for the G.I. Record Changer. Reinforced corners, convenient carrying handle. With record compartment. 15" x 15" x 13".
B16356. NET.....

\$7.35

NEW RCA RECORD CHANGER

Here is the genuine new "Gentle-Action" RCA De Luxe Changer—designed for those who desire the highest-quality record-changing mechanism. Identically the same as used in RCA-Victor Radio-Phono Combinations. Will automatically play eight 10" or seven 12" records. When loaded with 12" records, it will provide 35 minutes of uninterrupted entertainment. New RCA crystal pickup is of the latest inertia type, balanced to assure minimum record wear and surface noise. Top-loading makes needle-changing fast and easy; no fumbling; simply drop needle in top well, and tighten set-screw. Turntable is rim-driven by powerful motor, assuring constant speed. Shock-absorbent coupling between motor and turntable eliminates vibration. High-fidelity type high-impedance crystal pickup has output of 1.5 volts at 1000 cycles; range is 70 to 7000 CPS. All records with standard eccentric groove will operate the automatic mechanism and change records. Will play all types and sizes of records up to 12" manually. Repeats last record. Best tracking with minimum record wear is obtained by proper placement of the arm. Needle is off-set and balanced to exert a pressure of only 3 ounces. Pick-up impedance is 100,000 ohms at 1000 cycles. Finished in very attractive brown wrinkle with polished chrome trim. Motorboard measures 14 1/4" inches wide by 11 1/2" inches deep. Space required above motorboard, 4 1/4". 78 RPM. Intermixes 10" and 12" records. For 110 volts, 60 cycles AC. Shpg. wt., 35 lbs. The most famous of all changers.

B16260. No. 9909. NET.....

\$20.55

B16261. As above but for 110 volts, 50 cycles AC.

\$21.95

PORTABLE CASE. A perfectly constructed, sturdy airplane luggage type carrying case. Convenient record compartment. Sturdy handle. Size 15 1/4" x 12 1/2" x 12 3/4". Shpg. wt. 13 lbs.
B16355. NET.....

\$7.35



KNIGHT PLAYER-AMPLIFIER WITH RECORD CHANGER

A new portable record-playing instrument consisting of a genuine RCA automatic record changer and a powerful amplifier—all built into an attractive case. Will automatically play eight 10" or seven 12" 78 RPM records. Genuine RCA crystal pickup has a range of 70-7,000 CPS. Amplifier delivers 3 watts to 6" Dynamic Speaker. Uses 1—6J5 Pre-amp; 1—6K6 Power Output; 1—5W4 Rectifier. Controls include combination Volume control and on-off switch; Tone control; and separate motor switch. All records with standard stopping groove will operate the automatic mechanism to change records. Needle-head is off-set; needle pressure, only 3 ounces. Case is finished in handsome airplane luggage cloth with attractive striping. Size: 16" x 16" x 14". Supplied complete with tubes and 6-foot cord with plug. For operation from 110 volts, 60 cycles AC. Shpg. wt., 40 lbs. An outstanding value in a complete Automatic Player.

B16273. Knight Portable Player-Amplifier and Record Changer.
NET.....

\$39.75

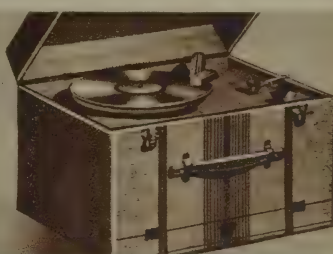


KNIGHT PLAYER-AMPLIFIER

Here is an outstanding value in a combination Record Player and Amplifier. Ideal for use in homes, schools, fraternalities, dormitories, advertising agencies, churches, clubrooms, summer homes, camps, etc. Single unit carrying case contains self-starting rim-drive 78 RPM phono motor and turntable, off-set head crystal pickup, built-in amplifier, and PM speaker. All components are accurately matched to provide the finest type of record reproduction. Will play 8, 10 and 12" records with the lid closed, thus reducing surface noise. Built-in volume control permits operation at either high or low levels as desired. AC switch is attached to volume control for convenience of operation. Attractively styled airplane luggage type case. Motorboard has needle cup and pick-up arm post which holds pickup in place while carrying. Amplifier of latest design has inverse feedback. Power output, 2 1/2 watts. 5" PM speaker. Uses 1 each, 12J5GT, 50L6GT, 35Z5GT. Complete with tubes. Size closed, 14 1/4" high, 13 1/4" wide and 9" deep. Weighs 14 lbs. For 110 volt, 60 cycle current. Shpg. wt., 18 lbs.

B16270. NET.....

\$18.75



POPULAR PORTABLE PHONOS

A dependable, portable electric phonograph for use with any amplifier or radio set having a high-impedance phono input circuit. Has high-grade friction-drive 78 RPM motor, self-starting type, with 9-inch turntable. Uses a high-impedance Knight Astatic off-set head Crystal pickup with response from 70-4000 CPS; output 2.9 volts at 1000 CPS. Pickup cord has convenient phone-tip ends. Built-in volume control. Has needle cup and pickup arm rest. The entire assembly is housed in a sturdy case which measures 17 1/2" x 13 1/2" x 8 3/4" open; 17 1/2" x 13 1/2" x 11 1/4" closed. Covered in handsome new airplane-luggage cloth with tan tweed effect. Case has handy record compartment. 110 volts, 60 cycles AC. Shpg. wt., 20 lbs.

B16271. Complete with Knight single-speed motor.
NET.....

\$10.85

B16272. Same as above but with a General Industries dual-speed, 78 and 33 1/3 RPM motor. A truly high-quality portable record player. For 110 volt, 60 cycle AC.
NET.....

\$19.95



BRUSH PICK-UPS

HI-FIDELITY TYPE PICK-UPS

Model PL-25 Crystal. Wide response, ± 2.5 DB 50-6000 CPS, with slight rise to 10,000 CPS. With Sapphire stylus. 1 ounce pressure. Wt., 7 lbs.
B1216. NET.....

\$16.17

Equalizer. High impedance type designed for use with above pickup. Wt., 1 lb.
B1218. NET.....

\$9.00

Model PL-20. Response ± 2.5 DB, 30-6000 with slight rise to 10,000 CPS. Pressure, 1 oz. With sapphire point and equalizer. Wt. 8 lbs.
B1205. NET.....

\$22.05

Model PL-50. Similar to PL-20 but has 1/2 ounce pressure and flatter response.
B1217. NET.....

\$44.10



Microdyne D-27E. Professional-type magnetic pickup for broadcast or PA work. For records up to 12". Response is flat within ± 3 DB, to 6,000 CPS. Has rising bass curve reaching 9 DB. at 50 CPS. Pressure, 1 1/4 oz. High impedance. Wt., 2 lbs.
B8068. NET.....

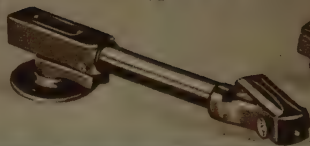
\$10.88

B8069. D-28E. As above but for playing records up to 16". NET.....

\$17.35



QUALITY PICKUPS



LOW PRESSURE PICKUPS

Needle pressure only one ounce! For better reproduction, with greatly decreased surface noise! These pickups feature basically different design with outstanding performance characteristics. You'll notice the difference!

SUPPLIED WITH SAPPHIRE STYLUS

These new low-pressure crystal pickups, of radically new design, provide the finest type of record reproduction. With a needle pressure of only one ounce, records do not wear out! Permanent sapphire stylus does away with annoying needle changes. Stylus cannot be damaged due to protective U-shaped guard and internal hold-down spring which allows stylus to absorb shock. Low tracking error with balanced sidewall pressure assured by special curved offset arm. Model FP-18 has range of 30-7000 CPS with .85 V. output; for use on commercial recordings. With LP-21 die-cast metal cartridge. Model FP-38 has range of 30-10,000 CPS for hi-fidelity applications; output, 65 V. With LP-23 cartridge. For 10" and 12" records. Finish is statuary bronze. High impedance. Shpg. wt., 2 lbs.

B8080. Model FP-18.
B8081. Model FP-38.
List, \$16.50. **NET EACH** **\$9.70**

SEMI-LOW PRESSURE PICKUP

A replaceable-needle type crystal pickup with some of the advantages of the low-pressure type pickups above. Needle pressure is only 2 ounces with the lightest moving system possible to use with replaceable needles. Frequency range is 30-6500 CPS with output of 1.25 volts. Balanced arm with low tracking error results in lower surface noise and better reproduction. For 10" and 12" records. With L-25 cartridge. Shpg. wt., 1½ lbs.

B8082. Model FL-55.
List \$13.50. **NET** **\$7.94**

TRU-TAN
Excellent fidelity of reproduction. Offset crystal head holds needle with tracking error of only 1.5 degrees. Response, 50 to 7000 CPS. Top-loading arm rotates on double-row ball bearings. Rotating head facilitates needle loading. Needle pressure, 2¼ oz.; output, 2.5 V. across ½ megohm load. With B2X cartridge. 3½ lbs.

B8076. B-10. For 10" **\$10.29**

and 12" records. NET **\$13.23**

B8077. B-16. For all **\$13.23**

records up to 16". NET **\$13.23**

MODEL AB-8

Ultra-modern Crystal Pickup. Features spring axial cushion to prevent motor vibration reaching arm. Response is 50 to 5000 CPS. Head is offset for proper tracking. Needle pressure, 2¼ oz.; output, 2.5 V. across ½ megohm load. With B-2 cartridge. For 10" or 12" records. Statuary brown finish. Wt., 2½ lbs.

B8072. NET **\$5.88**

STANDARD

Carefully balanced. Response, 60-5000 CPS. Needle pressure, 2¼ oz.; output, 2.5 V. across ½ megohm load. Pivoted cushioned arm. With B-1, B-2 cartridges. 2½ lbs.

B8074. S-8. For 10" **\$5.88**

and 12" records. NET **\$7.35**



MODEL 07

Die-cast arm with offset crystal head assures minimum tracking error and surface noise. Easy to load; vibration-proof. For 10" or 12" records. Black and chrome finish. Response is 70 to 4500 CPS. Needle pressure, 2¼ oz.; output, 2.9 V. across ½ megohm load. With 4 ft. cable and locking arm rest. With M22 cartridge. 1½ lbs.

B8083. NET **\$3.82**

B8084. 07S. As above but **\$3.82**

statuary bronze. NET **\$3.82**

MODEL SL-8

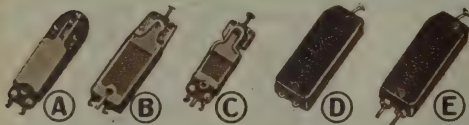
A straight-arm crystal pickup particularly suited for playing lightly cut home recordings. Die-cast and cushioned arm finished in statuary brown. Needle pressure, 2¼ oz.; output, 1.4 V. across ½ megohm load. Excellent response. For 10" and 12" records. With L-26 cartridge. Wt., 1½ lbs.

B8085. NET **\$2.91**

MODEL D9

A low cost efficient crystal pickup. Die-cast Tru-tan arm; plays all 10-12" records. Response 70-4500 CPS. Needle pressure, 2¼ oz.; output 1.4 V. across ½ megohm load. Statuary brown finish. With locking arm rest. With L-26 cartridge. Wt., 1½ lbs.

B8090. NET **\$2.91**



ASTATIC REPLACEMENT CARTRIDGES

Because of its importance to pickup performance, each Astatic cartridge is manufactured with utmost care and precision. B type cartridges in bakelite housing; L and M cartridges in die-cast metal case.

*For automatic phono. **For record changers.

No.	Model	Fig.	Terminals	Replaces	NET
B8300	LP-21	A	Lug	FP-18	\$4.70
B8301	LP-23	A	Lug	FP-38	4.70
B8302	L-25	B	Lug	FL-58	3.53
B8303	L-26	B	Lug	D5-SL8	3.53
B8304	L-22	C	Lug	AL-8	2.94
B8305	M-22	C	Lug	O-7	2.94
B8306	B2X	D	Screw	B10-B16	5.53
B8307	B1	D	Lug	S-8	2.94
B8308	B2	D	Screw	AB3-S12	2.94
B8309	B3	E	Pin	*	2.94
B8310	B4	D	3" Wires	**	2.94



TONE EQUALIZER

Fig. A. Varies the response characteristics of crystal pickups for bass, medium, or hi-fidelity, to suit individual requirements. Easily adjustable to desired response. 2" diam., ½" deep. Single hole mount. With dial plate and knob. Wt., 1 lb.

B8091. NET **\$1.76**

SCRATCH FILTER

Fig. B. Eliminates excessive needle noise and improves reproduction. For use with any magnetic or crystal pickup. Sealed metal case, 1½x2½x¾". Shpg. wt., 1 lb.

B8079. NET **88c**



SHURE CRYSTAL PICKUPS

"Zephyr" balanced-tracking pickups for all 10-12" records. Features the exclusive Shure needle-tilt to insure true tracking with less surface noise. Response 60-6000 CPS. Needle pressure, only 2¼ oz.; output, 2¼ V. across ½ megohm load. An exceptionally good pickup at a very reasonable price. With arm rest, template, and 3½ ft. cord. Shpg. wt., 1½ lbs.

B7528. Model 99C. Black.
B7529. Model 99CW. Walnut.
NET EACH **\$4.41**

SINGLE HOLE MOUNTING TYPE

Same pickups as above, but require only a single hole in motor board for mounting.

B7523. Model 99A. Black.
B7523. Model 99AW. Walnut.
NET EACH **\$3.82**

KNIGHT



WEBSTER-CHICAGO

An accurately balanced high-impedance crystal pickup at a remarkably low price. The crystal is a Grafoil-Bimorph type especially treated to give long life under adverse weather conditions. Cartridge is set at a tangent to assure proper needle-tracking for minimum wear and surface noise. Frequency response is 70 to 4000 CPS. Needle pressure is 2½ ounces. Overall length, 8½"; height, 1¼". Output is 2.9 volts at 1,000 CPS across ½ megohm load. Pivot and swivel mounting for easy needle loading. Handsomely finished in brown crackle. Shpg. wt., 1½ lbs.

98 B7527. NET **\$245**

Fig. C. Junior Model. Response is 70 to 7,000 CPS. Needle pressure, 2.7 oz.; output, 1.5 V. across ½ megohm load. Shpg. wt., 1½ lbs.

B7587. RCA 9891. List, \$4.95. NET **\$2.91**

B8317. Crystal cartridge for above. NET **\$2.20**

Fig. B. Bakelite Junior Model. As above, but in bakelite.

B7588. RCA 9868. List, \$5.45. NET **\$3.20**

B8316. Crystal cartridge for above. NET **\$2.20**

Fig. A. Senior Model. Response, 70-7000 cycles. Brown-wrinkle.

Needle pressure, 3 oz.; output, 1.5 V. across ½ megohm load.

B7589. RCA 9869. List, \$6.45. NET **\$3.79**

B8315. Crystal cartridge for above. NET **\$2.50**

Fig. D. RCA 9676. Mag. head for RE45 and RE75. 400 ohms.

B9496. NET **\$3.82**

Model 5583 magnetic pickup is a new development by Webster-Chicago. The new magnetic principle used results in exceptional brilliance of reproduction. The arm provides free action in any direction by means of jointed head and swivel base. Equipped with 18' of shielded cable. Output is 1.4 volt; impedance, 5000 ohms; record pressure, 3 ounces. Shpg. wt., 2 lbs.

B2241. NET **\$3.97**



GENERAL INDUSTRIES PHONOGRAPH MOTORS

GREEN FLYER MOTORS

SINGLE SPEED 78 RPM

Model A. Heavy-duty 78 RPM motor. Silent, helical-cut gears sealed in oil. With 10" turntable, mtg. plate, speed lever, and hardware. Size, 6 1/2" x 3 3/4" x 3 3/4" D. below plate. For 110 volts, 60 cycles. Shpg. wt., 10 lbs.
B10070. List, \$13.20. **NET... \$7.92**
B10077. Same as above, but with 12" turntable. **NET... \$8.22**
Model V. Identical to Model A above except with screw type speed regulator and less mounting plate. Motor size, 5 1/4" x 3 3/4" x 2 1/2". Shpg. wt., 8 lbs.
B10051. **NET... \$6.90**

2 SPEED 78—33 1/2 RPM

Model D. A heavy-duty motor suitable for all record and transcription-playing requirements. With 12" turntable, speed control, speed change lever, and hardware. Motor size: 8 3/4" L., 5 1/4" W., 3 3/4" deep. For 110 volts, 60 cycles. Shpg. wt., 13 lbs.
B10072. List, \$18.10. **NET... \$10.86**
B10071. As above but with 10" turntable. List, \$17.60. **NET... \$10.56**
B10078. **Model H.** Same as Model D but has heavier motor. With 12" turntable. Shpg. wt., 16 lbs. **NET... \$11.79**
B10073. **Universal Model N.** 78 and 33 1/2 RPM motor with 12" turntable, dial and pointer speed regulator. Operates from 110-volt, 50-60 cycle or 110-volt D.C. 13 lbs. **NET... \$13.98**

6 VOLT 2 SPEED MOTOR

Model R. Operates from a 6-volt battery, drawing only 2.8 A. Dual-speed for 78 and 33 1/2 RPM. With 12" turntable, 14 lbs.
B10074. List, \$24.50. **NET... \$15.21**
Weighted 12" turntables can be supplied with any of the above phono motors. Add \$1.80 to above prices and specify on order.

CX AND KX GEAR DRIVE

Model CX. Provides dependable performance at low cost. 78 RPM direct-drive, self-starting motor is of the induction type. Fan-cooling and proper ventilation permit installation in small cases without danger of overheating. Turntable is 8" in diameter. Furnished with mounting plate, metal and rubber turntable drive washer, screws, washers, and nuts. Light in weight, making it especially suitable for portable phonos. Depth below mounting plate 3 1/4". For 110 volts, 60 cycles.
 Shpg. wt., 10 lbs.
B10052. **NET... \$5.28**

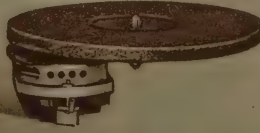
Model KX. Similar to the Model CX above but with slightly smaller motor.
B10085. **NET... \$4.41**
For 12" turntable with above models, add 45c to your net price.

KNIGHT GEAR DRIVE MOTOR

A wonderful "buy" in a high-quality phono motor. The 9" turntable is driven by a new 78 RPM constant-speed self-starting motor. Uniform speed is maintained regardless of record drag or variations in line voltage and operating temperature. Large bearings with ample oil reserve and special helical-cut gears assure smooth, silent operation and long life. Motor is fan-cooled and allows free ventilation. 4 3/4" L. x 3 3/4" W.; depth to mtg. plate, 3 3/4". For 110 volts, 60 cycles, AC. Wt., 8 lbs.
B10089. **\$3.95**
SPECIAL PRICE.

KNIGHT RIM-DRIVE MOTOR

A dependable unit at a sensationally low price. Smooth-running. Friction rim-drive through idler. Motor is shock-mounted to prevent vibration. 9" turntable, 78 RPM. For 110 volts, 60 cycles. Wt., 7 lbs.
B10083. **NET... \$2.45**
B7624. **Automatic Stop.** For use with either of the above Knight motors. **NET 90c**

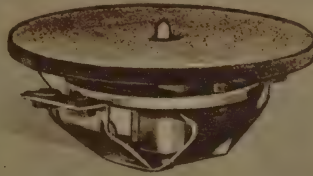


MODEL RX RIM-DRIVE

A 78 RPM rim-driven, self-starting, induction motor. 8" turntable. Motor insulated for quiet operation. Drive pulley, idler turntable position aligned in one plane, assuring efficient, trouble-free service. With mounting plate. For 110 volts, 60 cycles AC. Wt., 10 lbs.
 2 3/4" deep below mounting plate.
B10086. **NET... \$3.66**

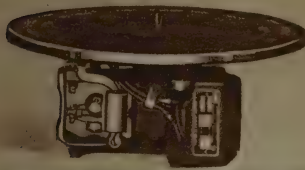
NEW MODEL LX RIM DRIVE

Essentially the same as the Model RX above but more compact in design and lighter in weight. 78 RPM. With 8" turntable. For 110 V. 60 cycles. AC. Wt., 10 lbs.
B10087. **NET... \$2.70**
For 10" turntable with RX motor only, add 15c to net price and specify on order.



RCA SYNCHRONOUS MOTOR

A midjet type phono motor identically the same as used in the RCA portable record players. An ideal motor assembly for use in all types of portable record-playing equipment, for modernizing or wherever space is limited. Synchronous type; manual-starting. Operates at 78 RPM from 105-125 volts, 60 cycles, AC, without wows or vibration. Power consumption only 10 watts. With 7" turntable for 10 and 12 inch records, and shock-proof mountings. Shpg. wt., 5 lbs.
B9491. RCA No. 33343. **\$3.50**
NET...

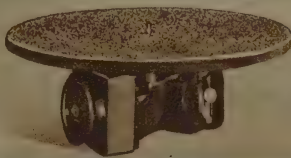


HEAVY-DUTY "BLUE-FLYER"

Model E. 78 RPM recording and playback induction motor. Furnished with special weighted 12" turntable. Complete with pointer speed regulator, drive washers and hardware. Depth below mtg. plate 4 1/2". Built for rugged dependability. For 110 volts, 60 cycles. Shpg. wt., 15 lbs.
B10084. **NET... \$11.40**
B10079. Same as above but with 33 1/2 RPM motor. **NET... \$12.00**

TURNTABLES ONLY

For use with motors directly above.
B10062. 10" turntable. **NET... 75c**
B10063. 12" turntable. **NET... \$1.05**
B10061. 12" weighted turntable. **\$2.55**
B10088. 16" balanced aluminum turntable. **NET... \$5.75**
B7624. **Automatic Stop.** For use with all General Industries phono motors. **NET... 90c**



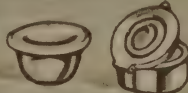
MODEL RG RECORDING MOTOR

Newly developed 78 RPM heavy-duty motor with 12" weighted turntable for recording or playback. Self-starting. Turntable shaft and hub carefully tapered to eliminate slippage. Turntable has a pin for holding record while being cut and played back. Pin drops flush with turntable when standard records are being played. Screw type speed regulator. Will maintain speed within permissible tolerances. Ideal for home recording. 7 1/4" x 3 3/4" x 3 3/4" deep. With mounting plate. For 110 volts, 60 cycles. Wt., 15 lbs.
B10080. **NET... \$16.50**
B10081. **Model RG3.** Same as above but for 33 1/2 RPM operation. **\$17.10**
NET...



STROBOSCOPE

Accurately checks 78 and 33 1/2 RPM speed. Essential for best recording and playback results. Printed on cardboard, 6" in dia. For use under an electric bulb light from 25, 50 or 60-cycle current. Simple, easy-to-understand instructions are printed on disc.
B7331. **NET... 12c**



NEEDLE CUPS

Attractive needle cup. Statuary-bronze finish. Fits 1 1/4" round hole. Two should be installed, one for new needles, one for used needles. Fig. A. **\$5c**
B7601. **NET... 5c**
Fig. B. above. Has spring hinge cover. Fits 1 1/4" round hole. Nickel-plate finish. For portable phonos. **B8070.** **NET... 8c**

NEW WEBSTER-RACINE PHONOGRAPH PICKUPS

SERIES 82

Fig. B. **Model X-82-A-3-D.** New balanced tangent type crystal pickup. Response 40 to 8500 CPS. Needle pressure, 2 oz. Impedance at 1000 CPS, 80,000 ohms; output 1.8 V. For 10 and 12" records. Shpg. wt., 2 lbs.
B8094. **NET... \$3.23**

Fig. B. **Model X-82-AN-D.** Same as above but output is .7 V. at 1000 CPS. With replaceable, sapphire needle.
B8095. **NET... \$3.97**

SERIES 80

Fig. B. **Model GX-80A-3-D.** An improved type of crystal pickup of the balanced tangent type for unusually fine reproduction. Possesses excellent electrical and mechanical characteristics. Frequency response from 50 to 7000 CPS. Needle pressure, 2.5 ounces. Impedance at 1000 CPS is 200,000 ohms; output, 1.8 V. For 10-12" records. Shpg. wt., 1 1/2 lbs.
B8086. **NET... \$2.91**

SERIES 79

Fig. A. An unusually fine crystal pickup at a low price. Frequency response is 50 to 8500 cycles. Needle pressure 2.5 ounces. Arm is rubber-cushioned. Single hole mount. Shpg. wt., 2 lbs. One of the most popular crystal type pickups and one of the least expensive.
B8093. **NET... \$2.91**
B8099. As above but with 6.3 volt pilot-light mounted in arm. **\$3.20**
NET...

STREAMLINE

Streamline Magnetic. Correctly damped for high fidelity. Output, 1 volt at 1,000 CPS. Impedance, 18,000 ohms. Ideal for low-gain amplifiers and radios. Fig. C.
B8096. **\$4.70**
NET...
B8097. **Streamline Crystal.** Similar to above but has crystal cartridge set at tangent. An outstanding value in a crystal pickup. **\$2.85**
NET... 99



DYNAMIC MICROPHONES



KNIGHT-ELECTRO-VOICE 631

An unusually high-quality dynamic microphone built to **ALLIED's** specifications by Electro-Voice. Designed to give excellent performance with **KNIGHT** Sound Systems, the Model 631 is also ideally suited for original or replacement equipment use in any type of Sound System installation. Head is housed in case guaranteed for life against flaws or defects. Head has fixed tilt of 22° for proper use by speakers or vocalists; core is 80% nickel. Diaphragm is made of high-tensile heat treated duralumin alloy that will not "crush" or damage, no matter how intense the sound pressure applied. Fitted with instantly removable baffle for use where directional pickup is desired; improves high-frequency response for crisp reproduction. Frequency response is 40 to 10,000 CPS; output level is -55 DB. Light gunmetal finish. High impedance. With 25-foot shielded, rubber covered cable and connector. Has standard 3/4"-27 thread. Shpg. wt., 4 lbs.

B9610. List, \$25.00. **NET \$1470**

ELECTRO-VOICE DYNAMIC MICROPHONES

MODEL 630

Response, 40 to 10,000 CPS. unusually flat through low and middle frequencies, rising 5 DB. on upper frequencies for crispness of speech. Has tilting head that can be aimed at source of sound for maximum pickup. Has built-in on-off switch and 20-ft. shielded cable. Output, -55 DB. Gunmetal finish. Has 3/4"-27 thread. Shpg. wt., 4 lbs.

B9611. High Imp.
B9612. 50 Ohms.
List, \$25.00.
NET EACH \$14.70
B9613. High Impedance model in chrome.
NET \$16.17

MODEL 640

Designed for superlative performance under the most exacting conditions. Gunmetal finished. Steel cradle permits tilting to any desired angle for varying degrees of directivity or discrimination against sound from rear. Response, 30-12,000 CPS; output, -52 DB. 3/4"-27 thread. With 20-foot shielded cable and connector. Shpg. wt., 4 lbs.

B9614. High Imp.
B9515. 50 Ohms.
List, \$27.50.
NET EACH \$16.17
B9616. High impedance model in chrome.
NET \$17.64

NEW CARDAK

A new dynamic mike with constantly variable pickup pattern. Enables selection of correct directional response for every installation. Response variable from uni-directional, which eliminates sound from rear, to bi-directional, which eliminates side-wall reflected sound. Response flat from 30 to 10,000 CPS; output, -52 DB. Tilt-type mount; 3/4"-27 thread. On-off switch. Chrome finish. 25-foot cable. Shpg. wt., 4 lbs.

B9622. High Imp.
B9623. 50 Ohms.
List, \$49.50.
NET EACH \$29.11



AMERICAN DYNAMICS

MODEL D5-T

An all-purpose dynamic type microphone. Output, -52 DB. Semi-directional; with tilting bracket; 3/4"-27 thread. Finished in Chrome. Wide response—40-8500 CPS. Complete with 25 feet of shielded cable. Ideal for professional recording. Shpg. wt., 4 lbs.

B9626. High Impedance.
NET \$19.10
B9625. 50 Ohms.
NET \$16.17

MODEL VR2

A new dynamic mike featuring directional pickup with variable frequency response. Adjustment permits response varying from sharp cutoff below 500 cycles to flat response with augmented bass. Finished in dull chrome with instantly removable baffle. With 12 1/2-foot cable and plug. Shpg. wt., 2 lbs. 3/4"-27 thread.

B9627. High Imp.
List, \$35.00.
\$20.58
B9628. 50 Ohms.
NET \$19.11

SHURE 500C

High impedance, moving conductor type dynamic mike with response from 70 to 7000 CPS. An exceptionally high quality mike at moderate cost. Fixed-tilt head finished in grey with polished plate front. Case style provides semi-directional sound pickup; aids in preventing feedback. Output, -58 DB. For use with amplifiers with input of 100,000 ohms or more. Ideal for use in low-cost Sound installations. 3/4"-27 thread. Supplied with 7-foot shielded cable. Wt., 3 lbs.

B9664. List, \$17.50.
\$10.29
NET
B9665. With 25-ft. cable.
NET \$11.17

AMPERITE PRESSURE GRADIENT DYNAMIC

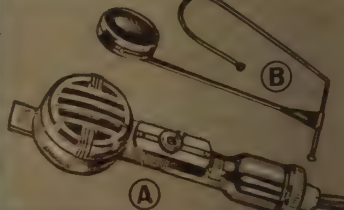
New uni-directional mike; reduces feedback. Output, -55 DB. Flat response from 40 to 10,000 CPS. With 25-ft. cable, connector and switch. Finished in chrome. Wt., 3 lbs.

B9668. PGH. High Imp.
B9669. PGL. 200 ohms.
List, \$32.00.
NET EACH \$18.82
As above, but response is flat from 70 to 8000 CPS. 12-ft. cable, connector and switch.
B9670. PGAH. High Impedance.
B9671. PGAL. 200 ohms.
List, \$25.00.
NET EACH \$14.70

ASTATIC DYNAMIC

Type DN. Having unitary moving coil and acoustic design together with quality Alnico magnets, this Astatic dynamic mike provides substantially flat response from 50 to 7000 cycles. High impedance type with output of -55 DB. Has tilting head. Two-tone grey and chrome finish. With stand-type plug and connector, spring cable-protector, and 25 foot shielded cable. Has 3/4"-27 thread. Shpg. wt., 2 1/2 lbs.

B9634. High Impedance.
List, \$22.50.
\$13.23
NET
B9635. 50 Ohms.
NET \$11.76



VELOCITY TYPES

ELECTRO-VOICE VELOCITY MIKES

FIG. A. V-2 VELOCITY. Response is essentially flat from 35-11,000 CPS; output, -64 DB. Housing and case design eliminates cavity resonance. Cradle mounting; 3/4"-27 thread. With 20-foot cable and on-off switch. Model V2 is a high quality, bi-directional microphone; excellent for use where wide, smooth response, with low feedback is required. Shpg. wt., 4 lbs.

B9603. High Impedance.
B9604. 50 Ohms.
NET EACH \$20.58

FIG. B. V-1 VELOCITY. Combines high-quality performance and extremely compact size. Cradle type suspension with built-in on-off switch. Response from 40 to 10,000 CPS. Output level, -65 DB. 3/4"-27 thread. With 20-foot cable and cable connector. Light gunmetal finish. Shpg. wt., 4 lbs.

B9605. High Impedance.
B9606. 50 Ohms.
NET EACH \$14.70

FIG. C. L-15 VELOCITY. Designed for applications where performance must be high and cost low. Pickup pattern is bi-directional. Response, 50-7000 CPS. Output, -66 DB. Gunmetal finish. With 8' cable. Shpg. wt., 4 lbs.

B9607. For speech reproduction.
NET \$8.82
B9608. For speech and music.
NET \$10.70

AMPERITE VELOCITY

Highest quality velocity mikes suitable for all P.A. needs. Has Acoustic Compensator for varying acoustic conditions; helps materially in reducing feedback. Heavy-cast gunmetal-finished case; hand-hammered ribbons; genuine Alnico magnets; triple-shielding against RF and magnetic fields, and high output. Range from 40 to 11,000 CPS. Has newly developed B.C. station type plug and 25 feet of cable. On-off switch in base of mounting yoke. Swivel mounting. Rubber shock absorber. Threaded 3/4"-27. Output, -65 DB. Sliding button permits correct tonal emphasis. Wt., 4 lbs.

B9666. RBHK. High Imp.
B9667. RBMK. 200 ohm.
List, \$42.00.
NET EACH \$24.70

UNIVERSAL HAND MIKES

Fig. A. Single Button Carbon. New style balanced-grip body in polished chrome. Impedance, 200 ohms. Output, -38 DB. Close-talking type. With 6-foot cord and on-off switch. 1 1/2 lbs.

B9642. NET \$5.88

Fig. A. Crystal Type. Body style as above. Moisture sealed crystal with curvilinear diaphragm. Response, 50 to 5000 cycles. High impedance. Output, -58 DB. With 6-foot cable and switch.

B9643. NET \$10.88

Fig. B. Crystal Chest Mike. An ideal microphone for use in Sound trucks, for Mobile transmitters, and Amateur stations. Holds mike in position leaving hands free. Internally sealed; moisture and shock proof. Response 50-5000 CPS. Output, -48 DB. Chrome finish. Weighs 7 oz. With 10-foot cable. Wt., 1 3/4 lbs.

B9644. NET \$11.47

POPULAR CRYSTAL MIKES



ASTATIC T-3

An excellent wide-range crystal mike for general application in PA, Recording, and general Sound installations, as well as for transmitting equipment. Frequency response is substantially uniform from 30 to 10,000 cycles, providing ample range for most speech and musical requirements. Output level, -52 DB. Tilting-head type case fitted with stand-type plug and connector, finished overall in polished chrome. Tilting-head provides effective means of controlling acoustic feedback. Has 3/8"-27 thread. With 25-foot shielded cable. A fine microphone. Shpg. wt., 3 lbs.

B9630. List, \$25.00. **NET**.....**\$14.70**



ASTATIC JT-30

Semi-directional type with fixed angle head for optimum usefulness. Has uniform wide-range response from 30 to 6000 cycles; output level, -52 DB. Internal suspension construction prevents pickup of vibration noises. Designed to provide really good performance at low price. The JT-30 is housed in a compact, polished chrome case, threaded 3/8"-27 to fit all stands. JT-31C also has cable-connecting plug. Shpg. wt. 3 lbs. Ideal for use where low cost is important.

B9631. Model JT-30C, with 7-foot cable. **NET**.....**\$9.70**

B9632. Model JT-31C, with 25-foot cable. **NET**.....**\$11.17**



(A)



(B)



(C)

SHURE CRYSTAL MICROPHONES

Model 7A. (Fig. A) A new economy microphone having Shure quality. Smooth wide-range response from 30 to 10,000 CPS. Output, -53 DB. This mike is ideal for low-price PA installations, paging and call-systems, etc. In a satin-chrome case, 3/8"-27 thread. Complete with 7-ft. cable. Shpg. wt., 3 lbs.

B9650. List, \$16.50. **NET**.....**\$9.70**

B9651. As above, but with 25 ft. cable. **NET**.....**\$10.58**

Model 705A, "Rocket" Mike. (Fig. B) Famous for its smooth wide-range, from 30 to 10,000 CPS. Tilting head easily aimed at source of sound. Output, -55 DB. 25 ft. shielded cable with connector. Rich satin-chrome finish. 3/8"-27 thread. 3 lbs.

B9652. List, \$25.00. **NET**.....**\$14.70**

Model 70H, "Super-Level." (Fig. C) A superior microphone of the pressure-actuated type. Response 30-10,000 CPS. High output of -46 DB. makes it ideal for all low-gain speech equipment for crisp reproduction. Chrome-finished case; with built-in cable connector. 3/8"-27 thread. With 7 ft. shielded cable. 3 lbs.

B9653. List, \$22.50. **NET**.....**\$13.23**

B9654. As above but with 25 ft. cable. **NET**.....**\$14.11**



(A)



(B)



(C)

SHURE Model 708A. (Fig. A) A semi-directional type crystal mike having a smooth wide range response. Wide-angle swivel mounting with die-cast case of handsome modern design, finished in lustrous satin chrome. Output, -49 DB. An ideal mike for PA or general use for both speech and music. Mechanically isolated genuine bi-morph crystal. 3/8"-27 thread. With 7' shielded cable and connector.

B9655. List, \$17.50. **NET**.....**\$10.29**

B9656. As above but with 25 ft. cable. **NET**.....**\$11.17**

BRUSH Model AP (Fig. B) Universal crystal mike. Has satin chrome-finished die-cast case. Adjustable impedance of 50, 200 and 500 ohms and high impedance. Output, -48 DB. Flat response from 30-5,000 CPS. New swivel design. Built-in variable tone control. With 25-foot cable and connector. Can be used with 200 or 500 ohm line of any desired length. Shpg. wt., 5 lbs.

B9657. List, \$29.50. **NET**.....**\$17.35**

UNIVERSAL Model 602A. (Fig. C) Push-to-talk type communications crystal mike for use in Police, Marine, Airport, and Amateur stations. Also for portable PA systems or wherever a microphone with momentary contact switch control may be required. Mounted on desk stand. Output, -53 DB. Polished chrome finish. Overall height, 11 inches. With 6' shielded cable. Shpg. wt., 5 lbs.

B9640. List, \$26.50. **NET**.....**\$15.58**

SHURE UNI-DIRECTIONAL MIKES



These new Shure Uni-Directional Microphones are the effective solution to feedback problems for every type of microphone application. Dead at the rear; eliminate pickup of reverberation, audience and background noise. Overcome all types of troublesome room acoustics. Permit more volume. Allow closer placement of microphone and speakers. For all difficult PA installations, in low-ceiling rooms, rooms with tile or brick walls, etc.

"UNIPLEX" CRYSTAL

Model 730A. The lowest-priced true cardioid Uni-Directional microphone available. Gives excellent high quality reproduction, practically flat from 30 to 10,000 CPS. Output level is -62 DB. at front; but at rear is down additional 15 DB. Tilting head. Widely-used in all difficult PA installations; in churches, low-ceiling rooms, night clubs with excessive noise, rooms with tile or stone walls, etc. Wide-angle response from the front, but dead at the rear; makes microphone placement simple because feedback is reduced. Permits greater volume; no need to crowd the mike. Beautiful, distinctive modern design, finished in satin chrome. Head size, 3 1/2" dia., 3 1/2" depth. With 25-ft. super-shielded cable and connector. Shpg. wt., 4 lbs.

B9658. List, \$32.50. **NET**.....**\$19.11**

"UNIDYNE" DYNAMIC

Model 55C. Most effective solution to sound pickup problems in public address, broadcasting and recording. Smooth wide-angle response from the front, yet is dead at the rear. Covers 40 to 10,000 CPS. Output, -58 DB. Rugged, shock-proof construction. For indoor and outdoor use. Satin chrome finish. Head tilts through 90° angle. 3/8"-27 thread. Head size, 4 1/4" high, 3 1/4" wide, 3 1/2" deep. High impedance model. With 25-ft. shielded cable. Includes internal transformer. Wt., 4 1/4 lbs. List, \$45.00.

B9659. **NET**.....**\$26.46**

Model 55A. Same as above, but for 35-50 ohm circuits. Permissible cable length for this low impedance model is practically unlimited. Supplied with 25-ft. two-conductor shielded cable.

B9660. **NET**.....**\$24.99**



(A)



(B)



UNIVERSAL CARBON MIKES

ELECTRO-VOICE CARBON MIKES

FIG. A. An extremely popular double-button type carbon mike in modern streamlined case. Impedance, 200 ohms per button. Response is 40-8,000 CPS. Output -42 DB. Button and diaphragm assembly suspended internally on live rubber. Gunmetal finish. 6-foot cable.

B9601. List, \$7.50. **NET**.....**\$4.41**

B9624. Above mike with desk stand and 25-foot cable. In attractive gunmetal finish. List, \$9.00. **NET**.....**\$5.29**

B15994. Desk stand only. 5' high. 3/8"-27 thread. Gunmetal finish. **88c**

FIG. B. An outstanding double button carbon mike value. Frequency response from 45 to 7000 CPS. Imp. is 200 ohms per button. Duralumin diaphragm.

B9602. List, \$5.00. **NET**.....**\$2.94**

MODEL W. High sensitivity, light weight, and general compactness of design make this a perfect "watch model" mike. Suitable for use in inter-office systems, detetaphones, PA systems, experimental work, etc. Impedance, 200 ohms. Equipped with new low hiss carbon button and spot center diaphragm. Enclosed in bakelite case. Only 1 1/4" diameter. 1/2" thick. Output, -38 DB. Has terminals at rear for cable connection. An outstanding lapel mike value.

B9641. List, \$3.00. **NET**.....**\$1.76**



BRUSH SOUND CELL

Sound cell type crystal mike for use where fine quality is desired. 360° non-directional response. Ideal for group pickup work. Output, -54 DB with wide response of 30-9000 CPS. Special "floating" design of internal cartridge; case material protects against electrical shock. Black molded plastic case with satin chrome trim, with swivel mounting. With 25-ft. cable and cable connector. Shpg. wt., 3 lbs.

B9646. Model QOM. List \$27.50. **NET**.....**\$16.17**



(A)



(B)

ECONOMY CRYSTAL MIKES

For all applications where cost is primary consideration.

B9661. Shure Model 707A. Fig. A. Output, -49 DB. With 7-ft. cable. Wt. 1 1/4 lbs.

NET.....**\$5.85**

B9681. Shure Model 717A Handmike. (Not illustrated.) With handle; 7-ft. cable.

NET.....**\$5.85**

B9633. Astatic Model R-3. Fig. B. Output, -52 DB. 7-ft. cable.

Less handle. **NET**.....**\$5.85**



AMPERITE KONTAK MICROPHONES

For all string instruments such as guitar, violin, double bass, piano, or for wind instruments. Easily installed without tools. Any number up to five, can be wired in parallel for complete orchestration. Av. wt., 4 lbs.

STANDARD MODELS

Fig. C. Frequency response 40 to 6,000 CPS. High impedance. SKH for use with high-gain amplifiers. KR output sufficient for direct use with most radio sets (after 1935) or with low-gain amplifiers. 15-ft. cable. Less volume control.

B9672. SKH. Low-output. **NET \$7.06**
B9673. KR. High O.P. **NET \$10.58**

Type KKH. **Fig. B.** Like B9672 but with hand volume control. High Impedance. **NET \$10.58**

B9674. **NET \$10.58**

B9677. **Fig. A.** Foot volume control for all models. **NET \$7.06**

B9678. **Kontak Clamp.** Clamps Mike to String Inst. **NET \$5.9c**

B9679. **Kontak Strap.** For flat-top guitars. **NET \$5.9c**

DE LUXE MODELS

Fig. C. **Type KTH.** Faithfully reproduces music over the entire usable range, from 40 to 9000 CPS. Used by many famous bands. Increases timbre, makes new effects possible. High-impedance. Low output, for high-gain amplifiers. 25-ft. cable.

B9675. **NET \$12.94**
B9676. **NET \$16.46**

Type KKH. As above, but with hand volume control. High impedance, low output type. **NET \$16.46**

B9677. **NET \$16.46**

B9678. **NET \$16.46**

B9679. **NET \$16.46**



BRUNO NO-VOLTAGE MICROPHONES

New no-voltage microphones. The only high impedance mikes that can be operated with as much as 1000 ft. of cable without appreciable loss of high frequencies. Not affected by heat or humidity.

Model LC3. **Fig. A.** Covers large areas. Directional fins act as funnel for incoming sound waves. Ideal for theater work where performer is constantly changing position. Output, -45 DB; 30 to 14,000 CPS; size, 7" x 3 1/4" x 2". Attractive gunmetal finish. Less cable, 3/4"-27 threads. Shpg. wt., 4 lbs. **\$7.94**

B9636. **NET \$7.94**
Model LC6. **Fig. B.** Extremely compact. Only 3/4" thick, 2 1/4" high, 2 1/4" wide. Mount on sounding boards of musical instruments, conceal for detective work, use on desks for paging, wear on lapel for hearing aids and portable uses. Output, -55 DB; 30 to 14,000 CPS; weighs 4 oz. Gunmetal finish. 3 ft. cable and plug. **\$7.94**

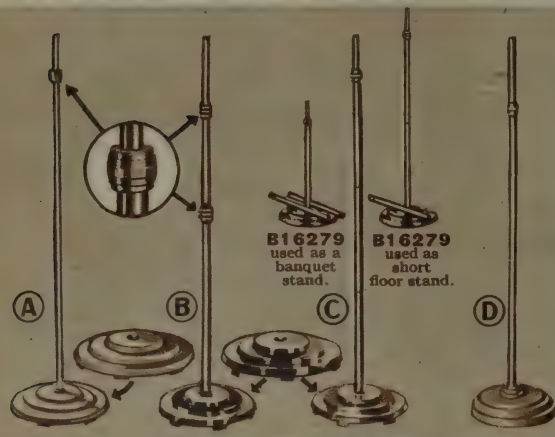
B9637. **NET \$7.94**
Model H. **Fig. C.** Hand or desk type. Permits close-talking with minimum pickup of extraneous noise. Output, -50 DB; 70 to 9000 CPS. Crystalline grey finish. Rubber coupling fits any stand. With 12 ft. cable. Shpg. wt., 4 lbs. **\$4.70**

B9638. **NET \$4.70**
B9639. 25-ft. cable with connector for above mikes. **NET \$1.47**

SHURE COMMUNICATIONS MIKE

Crystal Type. Model 75. Provides clear, crisp speech for amateur and commercial communication and for PA installations. Built-in RF filter protects against burn-outs. Output, -33 DB. Streamline desk mounting. Finished in iridescent grey. Supplied with 7 ft. shielded cable. Shpg. wt., 3 lbs. An exceptionally fine microphone value.

B9662. **NET \$11.47**
B9663. **Model 75H.** As above, but without stand. **NET \$9.70**



QUALITY MICROPHONE FLOOR STANDS

Unusually attractive, exceptionally durable floor stands in an extensive selection to suit every need. Heavy bases prevent tipping. All models are easily adjustable; positive action adjustable lock clutch prevents extended section from slipping. All chrome parts highly polished.

STANDARD ADJUSTABLE

Fig. A. A very popular adjustable floor stand for use with any microphone with standard 3/4"-27 thread. Ruggedly built, gleaming chrome-finished telescopic stem is easily adjusted from 35" to 68". Positive clutch action prevents slipping. Heavy 10 lb., 10" diameter, three-step base is finished in grey crackle. Center step has attractive red enamel trim on grey background. Shipping weight, 15 lbs. **\$3.60**

B16275. **NET \$3.60**

DE LUXE 3 SECTION

Fig. B. A new 3-section telescoping microphone floor stand with stem of highly polished chrome finish. Extends from 25" to 60"; newly developed clutch prevents slipping. Unusually stable 10" diameter base weighs 10 lbs.; finished in polished chrome with center step finished in beautiful black contrasting enamel. Standard 3/4"-27 thread to accommodate all standard microphones. An exceptionally durable and handsome stand. Shpg. wt., 15 lbs. **\$5.25**

B16278. **NET \$5.25**

DE LUXE 3 WAY TAKE DOWN

Fig. C. A new triple-purpose stand; may be used as a 14" banquet stand, a 45" short floor stand, or a tall floor stand adjustable to 59". Provides correct height for any purpose in a jiffy. Positive locking clutch. Stem finished in chrome. Three-step chrome base, with center step in black enamel. Base is 10" in diameter; weighs 10 lbs. Standard 3/4"-27 thread. Shpg. wt., 17 lbs. **\$5.95**

B16279. **NET \$5.95**

HEAVY-DUTY ADJUSTABLE

Fig. D. Built especially for heavy studio microphones. Chrome-plated tubing is larger in diameter than used in other stands. Extra-heavy 24 lb. base in grey wrinkle. Adjustable from 37" to 65". Fittings for standard 3/4"-27 thread and 1/2" pipe thread, 28 lbs. **\$8.75**

B16277. **NET \$8.75**

LIGHTWEIGHT ADJUSTABLE

Fig. D. A lightweight stand ideal for portable recorders, PA systems etc. Attractive baked enamel stem and base; positive-acting clutch. Telescoping stem extends from 33" to 59"; standard 3/4"-27 thread. Has 7 lb. base, 9" in diameter. Shpg. wt., 10 lbs. **\$2.75**

B16280. **NET \$2.75**

DESK AND BANQUET MIKE STANDS

Popular stands for banquet table and executive's desk. Wide selection permits suiting personal preference. Attractively designed.

3 WAY MIKE STAND

Fig. A. Portable stand, converts to 8" banquet stand, mike handle, or desk stand. Has 6" dia. grey crackle base, 4 1/2" grey crackle handle, and 2" chrome plated stem. 3/4"-27 thread. Shpg. wt. 7 lbs. **\$1.95**

B16290. **NET \$1.95**

10" DESK STAND

Fig. B. Stem is chrome finish; base is two-tone finish of grey crackle and baked red enamel. Standard 3/4"-27 thread. Shpg. wt., 6 lbs. **\$1.10**

B16281. **NET \$1.10**
B16282. As above, but all chrome. Center step of base is black enamel. **NET \$1.45**

ADJUSTABLE BANQUET

Fig. C. Extends from 8 1/2" to 12". 3/4"-27 thread, 7 1/2" dia. base with rubber feet. Bright chrome finish. Shpg. wt., 8 lbs. **\$2.95**

B16283. **NET \$2.95**

FLEXIBLE PBX ARM

Fig. D. For switchboards, etc. Pivots and revolves at base and tilts up or down. Extends to 21". Chrome finish. Wt., 4 lbs. **\$1.95**

B16284. **NET \$1.95**

FOR CARBON MIKE

Fig. E. Octagonal ring, 3 1/4" in dia. Black wrinkle finish. With 8 springs. Wt., 4 lbs. **\$1.32**

B16285. **NET \$1.32**



SHOULDER MIKE CARRIER

For PA work where both hands must be free. Has adapter to fit any 3/4"-27 or 3/4"-24 mike coupling threads. Weighs only 11 oz. Adjustable stem with ball and socket joint allows fixing mike height and position. Heavy wire mounts fit comfortably over shoulders. Especially useful for Mobile PA, permitting operator to talk while driving; or for demonstrators, lecturers, etc. Shpg. wt., 2 lbs. **\$1.79**

B16287. **NET \$1.79**



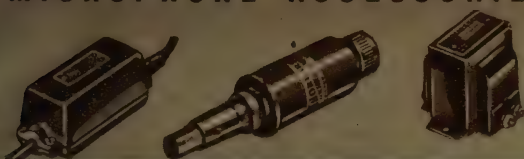
Fig. A. New 2-piece Tenite desk stand and handle. Upright is removable from base by single twist enabling operator to use as a mike handle. Fits any mike 3/4"-27 thread. Shpg. wt., 2 lbs. **\$8.8c**

B16286. **NET \$8.8c**

Fig. B. Suspension eye. For suspending any mike having 3/4"-27 threads. Finished in polished chrome. Shpg. wt., 6 oz. **\$5.9c**

B15993. **NET \$5.9c**

MICROPHONE ACCESSORIES



MICROPHONE TRANSFORMERS

EXTERNAL INPUT

Has special balanced winding; couples all low impedance microphones (up to 200 ohms) to high impedance amplifier grid circuit. Response, 60-8000 CPS. Fully shielded. Designed for high-gain work. With connecting leads. Wt., 3 lbs.

B3919. NET. \$3.53

CABLE TYPE

Thordarson T14A76. Convenient method of connecting 30-250 ohm mikes to high impedance amplifiers. Connects in series with mike cable and amplifier input. Response, 1.5 DB from 30 to 15,000 CPS. Overall dia., only 1". Wt. 1 lb.

B6052. NET. \$8.53

COUPLING TYPE

B11623. For single button carbon microphone. Hi-impedance secondary for connecting into grid circuit of first tube of audio amplifier. Fully shielded. Shpg. wt., 2 lbs.

B11624. Same as above, but double-button type. Fully shielded. Shpg. wt., 2 lbs. **NET EACH. 89c**

CARBON MIKE ADAPTER KIT

For matching single or double button carbon mikes to any radio or amplifier. Connects to phone input or grid of tube. Ideal for adding an inexpensive additional mike to existing PA equipment. Consists of 4½ volt C battery, transformer, and current control with switch. Shpg. wt., 3 lbs.

B3941. NET. \$2.05



MICROPHONE SWITCHES

Compact on-off switch; fits between any mike and stand having ¾"-27 threads. Has slide-type switch. With cable-clamp. Knock-out hole in back for cable. Chrome-plated case. Wt., 1 lb.

B7508. NET. 98c

B7509. As above but with Push-to-Talk Switch. **NET. 98c**

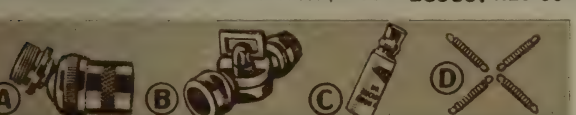
Plug-in type switch for Shure connector-mounting mikes listed on pp. 100-101. Easy to install. No wiring. Switched Off and On by bakelite knob. Shpg. wt. 2 lbs.

B3942. Type A83A. NET. \$2.35

B3943. As above but with Push-to-Talk Switch. **NET. \$2.65**

Compact, fully shielded, unbreakable switch for installation between microphone and mike connector. ¾"-27 thread. Push-to-Talk and release button for stand-by; or slide switch forward for permanent connection. Polished Chrome finish. Wt. 1 lb.

B3939. NET 59c

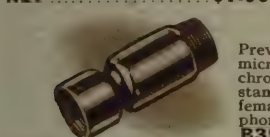


MIKE STAND SWIVELS

FIG. A. Permits 360° tilt of mike. Chrome-finished. Shpg. wt., 8 oz.

B7583. ½" pipe to ¾"-27. **B7585.** ¾"-27 to ½"-27. **NET EACH. 45c**

B7510. FIG. B. Permits 300° tilt. Key-type locking screw ¾"-27 to ½"-27. **NET \$1.98**



CARBON GRANULES

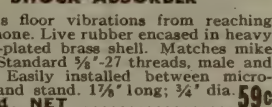
FIG. C. No. 100 size. Highest quality. Sufficient to re-fill two carbon microphones.

B2597. NET. 40c

MICROPHONE SPRINGS

FIG. D. Highest quality tempered steel springs for mounting microphone in ring holder.

B7557. Set of 8. NET. 15c



SHOCK ABSORBER

Prevents floor vibrations from reaching microphone. Live rubber encased in heavy chrome-plated brass shell. Matches mike stand. Standard ¾"-27 threads, male and female. Easily installed between microphone and stand. 1 7/8" long; ¾" dia. **B3934. NET. 59c**



LOW-IMPEDANCE

For all low-impedance mikes, including carbon. Fully shielded; heavy rubber jacket. Two individual stranded center conductors. For indoor and outdoor use.

B3514. PER FOOT. 4c

PER 100 FEET. \$3.10

MICROPHONE CABLE HIGH-IMPEDANCE

For crystal, dynamic and velocity mikes. Shielded, rubber-covered.

B2499. Single Conductor. NET PER FOOT. 4c

PER 100 FEET. \$3.25

B2498. Double Conductor. NET PER FOOT. 5 1/2c

PER 100 FEET. \$4.10

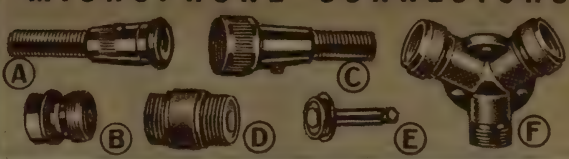
LENZ SUPER-FLEXIBLE

For all hi-impedance mikes. Tinsel-center single conductor. Shielded; rubber-covered. Wire-wrap ends when soldering. Eliminates conductor breakage.

B2470. PER FOOT. 5c

PER 100 FEET. \$4.22

MICROPHONE CONNECTORS



SINGLE CONDUCTOR CONNECTORS

CABLE TYPE CONNECTORS

Indestructible, pressure type. Machined-brass finished in chrome. ¾"-27 threads. Cable shield grounding provision; with cord protector.

B4161. FIG. A. Male with coupling threads. **NET. 24c**

B4162. FIG. C. Female with coupling ring. **NET. 29c**

B4588. FIG. D. Couples two cables both with female connectors; replaces costly plug-and-cable adapters. Both ends male, ¾"-27. **38c**

B4589. Changes B4161 connector into female, ¾"-27 thread. **12c**

B4597. FIG. C. Similar to B4162, but smaller dia. Can be used for speaker or other outlets. ½"-27 thread. **NET. 26c**

B4590. FIG. D. Same as B4588, but smaller. ½"-27 thread. **NET. 32c**

B4587. Same as B4589, but smaller. ½"-27 thread. **NET. 12c**

B3914. FIG. E. Phone plug adapter. Screws into B4162. Plugs into standard jacks. **NET. 26c**

CHASSIS TYPE CONNECTORS

B4163. FIG. B. Standard single conductor chassis and mike connector. Non-shorting type. A built-in unit in many amplifiers and mikes. Takes B4162 connector. ¾"-24 threaded mounting shank. **NET. 18c**

B4595. FIG. B. Shorting type; grounds circuit automatically and prevents open circuit noise. Designed on new principle; has no solder on outside tip making contact to cable connector, and thus connector is easier to screw on. ¾"-27 thread; for ¾" hole. **NET. 24c**

B4596. Similar to B4163, but has ½"-27 thread; for ¾" hole. **15c**

TRIPLE CONNECTORS

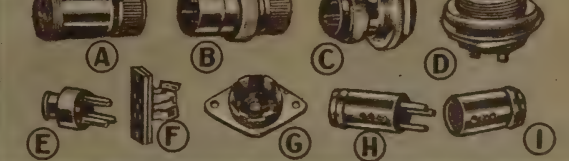
Fig. F. Connect two mikes or speakers in parallel. Standard ¾"-27 thread. Brush chrome finish.

B4591. 3-female type.

B4592. 3-male type.

B4593. 2-male and 1-female type. **NET EACH. \$1.03**

B4594. 1-male and 2-female type. **NET EACH. 15c**



THREE CONTACT CONNECTORS

HEAVY DUTY TYPE

Standard for 2 and 3 conductor-mike cable. Machined-brass shell chrome-plated. Have spring cord protectors. ¾"-27 thread.

B4550. FIG. A. Male. **NET EACH. 59c**

B4551. FIG. B. Female. **NET EACH. 59c**

MINIATURE TYPE

Molded bakelite 3 contact connectors housed in cadmium-plated brass shells. Only 13/16" long; 11/16" outside dia. Accommodate cables up to ½".

B4552. FIG. I. Female. **NET EACH. 18c**

B4553. FIG. H. Male. **NET EACH. 18c**

B5692. FIG. E. Shielded male connector. 9/16" long; ¾" outside dia. **NET. 9c**

CHASSIS TYPE

B4165. FIG. D. Female chassis connector. Fits Fig. B. Mounts in 13/16" hole. **NET 29c**

B3944. FIG. C. Male chassis connector. Fits Fig. A. Prongs are shielded. Chrome-plated. Adjustable to panels up to ¾" thickness. Has coupling ring. **NET. 59c**

B4563. FIG. G. Female chassis connector with mtg. plate; takes Fig. H plug. Plug has bakelite at entrance. Mtg. centers, 1 1/8". Requires ¾" hole. **NET. 18c**

B5691. FIG. F. Female chassis connector. Takes Fig. E plug. **NET. 9c**



SHIELDED PLUG AND JACK

FIG. A. Insulated 2 and 3 circuit plugs and jacks. Plug only illustrated. Of nickel-plated brass.

2 CIRCUIT

B5666. PLUG. NET. 44c

B5667. JACK. EACH. 44c

B5695. A new stubby type plug. Barrel, 11/16" dia. x 1" long. **NET. 28c**

3 CIRCUIT

B5668. PLUG. NET. 59c

B5669. JACK. EACH. 59c

PORTABLE JACK

B5665. FIG. D. Bakelite encased jack for extension cords. Fits B8957 plug at right. **NET. 35c**

3 WAY PLUG AND JACK

FIG. B. Well-designed 3-way plug and jack for use in any two or three conductor, microphone input circuit. Plug has bakelite barrel with nickel-plated brass parts. Jack has phosphor-bronze springs, assuring excellent contact. Mounts in a single ¾" panel hole. Shpg. wt. each 4 oz.

B8957. PLUG. NET. 39c

B8958. JACK. NET. 35c

MIDGET JACK

B3883. FIG. C. Chassis type midget jack for use with above B8957 plug. **NET. 21c**

FINER BAFFLES FOR BETTER TONE QUALITY



DE LUXE WOOD BAFFLES

Attractive hardwood veneer baffles, finished in walnut. Excellent for all indoor installations. Have handsome gold grille cloth; grille opening is protected by trim reinforcing bars. Measures 16½" high, 14½" wide, and 6½" deep at base; 8½" deep at top. Built for 11" or 12" speakers. For schoolrooms, stores, offices, auditoriums, etc. Acoustically correct. Shpg. wt., 10 lbs.

B16400. For 11" or 12" spkrs. \$3.90 NET.

B16401. For 8" speakers. 12"x10½"x5". Shpg. wt., 6 lbs. NET. \$2.35

BEAUTIFUL IVORY FINISH

Same hardwood baffles as above, but finished in attractive ivory. May be repainted to match room coloring. Shpg. wt., 10 lbs.

B16402. For 11" or 12" spkrs. \$3.98 NET.

B16403. For 8" speakers. 12"x10½"x5". Shpg. wt., 6 lbs. NET. \$2.45

QUALITY FABRIKOID WALL BAFFLES

STANDARD BAFFLES. Inclined face provides correct coverage over greatest area. Ruggedly built of strong plywood covered with durable dark brown leatherette fabri-koid. Rigid construction. With spkr. mtg. bolts. Wt., 6 lbs.

B16404. For 11" or 12" spkrs. 17" high x 13½" wide x 8" deep. NET. \$1.95

B16405. For 10" spkrs. 14"x12"x7". NET. \$1.65

B16406. For 8" spkrs. 11" high x 9½" wide x 6" deep. NET. \$1.45

B16407. For 6" spkrs. 9" high x 8" wide x 5" deep. NET. \$1.25

DE LUXE BAFFLES. Efficiently designed baffles finished in attractive tan fabri-koid covering. Inclined front panel projects sound for excellent coverage over maximum area. Sturdily constructed of selected plywood. Have attractive black and gold grille cloth. Solid construction throughout. With spkr. mtg. bolts. Wt., 8 lbs.

B16408. For 11" or 12" spkrs. 17" H. x 14" W. x 9" D. NET. \$2.75

B16409. For 10" spkrs. 14" H. x 12" W. x 7" D. NET. \$2.25

B16410. For 8" spkrs. 11" H. x 9½" W. x 6" D. NET. \$1.75

FLAT BAFFLES

Acoustically perfect baffle boards, solidly constructed of select 5-ply veneer. Especially designed for all flush-mounting installations. Speaker opening may be covered with tapestry, grille cloth, etc. Supplied finished in silver, but may easily be repainted to match any decorating scheme. Extensively used for mounting speakers permanently in walls, cabinets, etc. Size: 36" x 36", more than ample for faithful reproduction. Cut to size with rip saw. Wt., 10 lbs.

B16411. For 11" or 12" speakers. NET. \$1.95

B16412. For 8" speakers. NET. \$1.95

PORTABLE CARRYING CASES FOR EVERY NEED



DUAL SPEAKER CASE

Permits carrying two 12" speakers. Case divides into separate units, serving as baffles when speakers are in use. Has airplane cloth covering and carrying handle. Speaker grilles backed with metal screen. Heavy plywood construction; snap-type trunk clasps; metal feet on bottom of each section. Extremely compact and portable. With spkr. mtg. bolts. Suitable for all portable PA needs. Size inside closed, 20" x 12¼" x 9½". Shpg. wt., 12 lbs.

B16363. NET. \$5.75

SINGLE SPEAKER CASES

Speaker opening with grille cloth is backed with heavy metal screen. Removable back fitted with snap-type trunk clasps. Constructed of heavy plywood. Has carrying handle and rubber feet. With spkr. mtg. bolts. Shpg. wt., 9 lbs.

B16361. For 12" speaker. 12¾" x 12¾" x 9½". \$3.65 NET. inside size.

B16362. For 8" speaker. 12¾" x 12¾" x 9½". Will also carry Knight 7 watt amplifier or any similar sized unit. NET. \$3.65

SPEAKER-AMP. CASE

For housing complete PA system. Will accommodate Knight 14 to 30 watt Standard amplifiers and one or two 12-inch speakers. May also be used with other amplifiers having similar dimensions. Heavy plywood construction; both parts serve as speaker baffles. Speaker openings have protective cloth grille. Attractive airplane-luggage finish. With spkr. mtg. bolts installed. Has sturdy carrying handle. Inside size: 21½" x 18¾" x 14". Shpg. wt., 21 lbs.

B16367. NET. \$6.95

AMPLIFIER CASE

Cleverly designed case built to house any 1941 Knight Deluxe amplifier. (Also suitable for other amplifiers of similar dimensions.) Has special "false bottom" compartment for carrying microphone, cable, speaker extension cords, etc. Heavy plywood with reinforced corners; covered in attractive airplane-luggage cloth. Inside measurements: 21½" L x 16½" H x 16¼" W; lid 14" H. An unusually practical case. Shpg. wt., 15 lbs.

B16364. NET. \$5.95



PHONOGRAPH CASES

Attractively designed cases for housing phonographs. Of sturdy plywood to withstand long, hard usage. B16365 has storage compartment, with pull-out shelf, to accommodate about 15 records. Blank motor board may be easily cut to fit any motor. Handsome airplane-luggage finish with tan tweed effect. Inside size: 16½" x 13" x 9½". Shpg. wt., 14 lbs.

B16365. NET. \$4.75

B16366. As above, but for dual phono turntables. Size: 36½" x 12¾" x 9". Less record compartment. Shpg. wt., 15 lbs. **\$6.75**

SPEAKER-AMP. CASE

Use this handsome Speaker-Amplifier case for your present equipment to make your sound system portable. Attractive airplane cloth-covered case has ample room to carry amplifier and two 12" dynamic speakers. Separates into three units, two of which serve as speaker baffles; holds amplifier in bottom section. All units fasten securely together with heavy trunk clasps. Heavy plywood with reinforced corners. Inside size: 25" x 20½" x 15". Shpg. wt., 28 lbs.

B16360. NET. \$9.75

PORTABLE BAFFLE STANDS

Take the worry out of your Portable PA set-up! Forget about flimsy makeshifts and awkward speaker facilities. These strong floor stands are designed to assure fullest adaptability. Locking-type swivel permits adjusting baffle to any angle for proper coverage. Telescoping sections of seamless steel tubing quickly extend from 46" to 78". Independently adjusting tripod base easily set to accommodate light-weight or heavy baffles. Base is collapsible like a music stand. Finished in black enamel; rubber-tipped legs. Less baffle. Wt., 15 lbs.

B16415. For Kainer Projectors listed on next page, and other baffles with ½" pipe-thread mounting hole. **NET. \$5.95**

B16416. For Steel-Aluminum Baffle listed on next page. **NET. \$5.95**

B16417. For speaker cases listed above. **NET. \$6.25**

AUTO TOP AND WALL MOUNT

For use with Steel-Aluminum Baffle listed on p. 105. Saddle-top fastens to Baffle; tilts for adjustment to any angle. 12" high with cast mounting base 7" in dia. Black wrinkle finish. Heavy construction with-stands abuse. Easily mounted on car roof or walls. Wt., 8 lbs.

B16418. NET. \$1.95

HOW TO SELECT THE PROPER BAFFLE

FLAT
BAFFLES



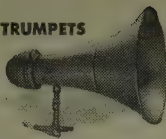
Spread sound over the widest possible area. This group includes: flat boards, cases, wall type and reflex enclosures, and cabinets.



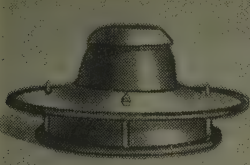
PROJECTORS

Direct the sound in a comparatively wide beam to a definite area. Tone is crisp. For athletic fields, paging, assembly halls, etc.

TRUMPETS



Direct sound in narrow beam to the farthest possible point. Used for stadiums, etc. Crisp, more penetrating tone.



UNIVERSITY CHAN-
DELIER BAFFLE

The ideal baffle to provide uniform 360° sound coverage. Directs sound down to audience, assuring maximum sound distribution and reducing reverberation. This one baffle replaces multiple speaker installations. Accommodates any 12" P.M. speaker. Recommended for use in churches, clubs, dance halls, etc., as well as for outdoor installations. Has "rubber tire" rims to prevent resonance and rattles, floating rubber cone mounting, and waterproof "breather." Of durable spun aluminum; 13" high; bell opening, 27" dia. With mounting fixture. Shpg. wt., 15 lbs.

B16437. RCP-12. For 12" speakers. **NET EACH.....\$13.23**

UNIVERSITY ONE-
PIECE PROJECTOR

Non-resonant parabolic projector spun in one seamless piece of heavy-gauge aluminum. Assures greater rigidity; eliminates rattles; prevents rain leaks. Floating rubber speaker mounting, "rubber tire" rims, and oversize breather permit best acoustical results. Giant bell (24" dia.) provides for wide angle coverage and improves reproduction at the low frequency portion of the AF band. Overall length, 19". With universal "U" mounting brackets and swivel bolts. Shpg. wt., 12 lbs.

B16435. SP-12. For 12" speakers. **\$9.10**

B16436. SP-8. For 8" speakers. Length, 14"; bell, 18" dia. **\$6.17**

STEEL-ALUMINUM
BAFFLE

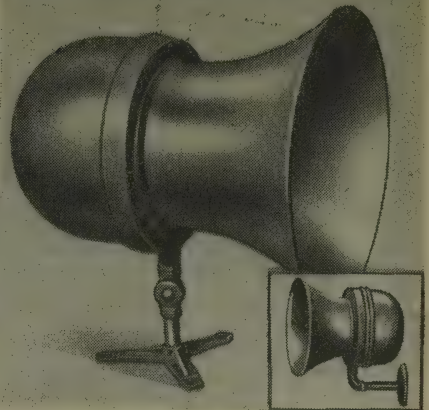
For speaker protection and adequate sound distribution in outdoor or indoor installations. 18 gauge aluminum flare; heavy gauge steel back. Overall length, 20"; bell dia., 17". Takes any 11" or 12" speaker. May be used with smaller size speakers by using reducer rings listed below. Weatherproof gray finish. With suspension loops and hardware. For wall or auto top mounting, use mount B16418 listed at bottom of page 104. Wt., 8 lbs.

B16432. NET.....\$4.25

B15985. Reducer ring for 8" speaker.

B15986. Reducer for 10" speaker. NET EACH..... 53c

PROJECTOR BAFFLES



KAINER ALL-STEEL PROJECTORS

The result of exhaustive laboratory and field tests. Designed to house any 12" speaker, with or without matching transformer attached. Spun from 20-gauge steel in only two pieces. Has screened breather opening for proper back pressure release. "Air-Foam" insulation. Overall length, 20"; bell diameter, 17", 11" flare extension. The fixture to which the lower bracket or extension can be attached is of malleable iron and is welded to baffle; threaded for 1/2" pipe. No rivets to pull out. Baked grey wrinkle finish. Shpg. wt., 8 lbs.

B16425. De Luxe Projector, less bracket. NET.....\$7.20

B16426. De Luxe Projector, less mounting, but with eye rings for ceiling suspension. NET.....\$6.98

B16427. Adjustable crowfoot for above..... 1.47

B16428. Adjustable wall bracket (illustrated with smaller projector). NET.....59c

PROJECTORS FOR 6" OR 8" SPEAKERS

Constructed as above, but for smaller speakers. Less bracket. Shpg. wt., average, 5 lbs.

B16429. 6" De Luxe Projector. NET.....\$4.41

B16430. 8" De Luxe Projector. NET..... 7.20

B16428. Adjustable wall-mounting bracket (as illustrated with smaller projector). NET.....59c

TRUMPET BAFFLES AND UNITS



DRIVER UNITS

New Knight 15 watt driver unit especially designed for public address use with projectors and trumpets. 8" P.M. dynamic unit handles 15 watts, with peaks of 18 watts. Voice coil, 1 1/4" dia.; impedance, 8 ohms. Accurately centered to prevent distortion. 7 lbs.

B15987. Knight Driver Unit. NET.....\$6.22

B15915. Jensen Model PAH-8 Driver Unit. Handles 15 watts without distortion. 8" dia.; 8-ohm voice coil. Wt., 11 lbs. NET.....\$9.41

JENSEN PERI-DYNAMIC

A newly designed trumpet with exclusive Jensen Peri-Dynamic acoustical features. Special sealed enclosure provides for added crispness and intelligibility; also greatly reduces feedback. Accommodates 8" driving unit. Of heavy sheet steel with cast bulkhead between horn and speaker enclosure. Overall length, 30"; bell opening, 24 1/2" dia. Blue-grey lacquer finish. Less driving unit and stand. Shpg. wt., 15 lbs.

B16380. Trumpet only. NET.....\$21.17

B16381. Peri-Dynamic Trumpet as above, but complete with Jensen PAH-8 driving unit described at left (less stand.) Shpg. wt., 24 lbs. NET.....\$30.58

B16383. Adjustable cast metal Crow-Foot Stand as illustrated. Wt., 5 lbs. NET.....\$2.94

KAINER TRUMPET

A rugged spun-steel trumpet for all P.A. applications where full power must be projected directly toward an audience. Accommodates 8" driver unit. Allows gradual expansion of sound-wave front, preventing disturbance from turbulent-air eddy currents. Bell diameter, 24"; length of horn, 36". Made of specially spun steel alloy. Mount is welded directly to trumpet for greater strength; threaded to take standard 1/2" pipe. Finished in baked grey enamel. Supplied less bracket. 13 lbs.

B16420. Trumpet only. NET.....\$20.46

B16421. Trumpet as above, complete with Knight 15-watt driver unit described at left. Less bracket. Shpg. wt., 18 lbs. NET.....\$24.95

B16422. Adjustable Crow-Foot Bracket, as shown. Wt., 5 lbs. NET.\$1.98

KAINER
WEATHERPROOF

A fully weatherproof trumpet for all outdoor installations and for sound trucks, Police cars, etc. Spun from steel, exceptionally rugged, yet light in weight. Overall length, 17 3/4"; height from base, 27"; bell opening, 22 1/2" diameter. Will accommodate any 8" speaker. With adjustable mounting bracket, 1/2" pipe thread. Grey finish. Shpg. wt., 25 lbs.

B16423. Trumpet \$18.14 only. NET.....

B16424. Trumpet as above, complete with Knight 8" P.M. driver unit described at left. Wt., 33 lbs. NET.....\$22.95

BAFFLE ACCESSORIES

HORN COVERS. Fully weatherproof to protect against rain, snow, dust, etc. Slip over bell opening, fasten with draw string. Wt., 1 lb.

B10285. For 12" to 16" bell. NET......95c

B10286. For 16" to 18" bell. NET.....\$1.00

B10289. For 20" to 24 1/2" bell. NET..... 1.50

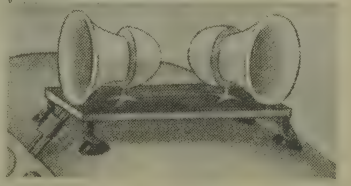
B10291. RIM DAMPENER. Eliminates vibration and rattles. Supplied in any length to encircle bell edge of any projector or trumpet. **NET PER FOOT.....15c**

B10292. METAL-CLOTH SCREEN. For projector baffles with 7" bell opening. With gaskets. **NET.....44c**

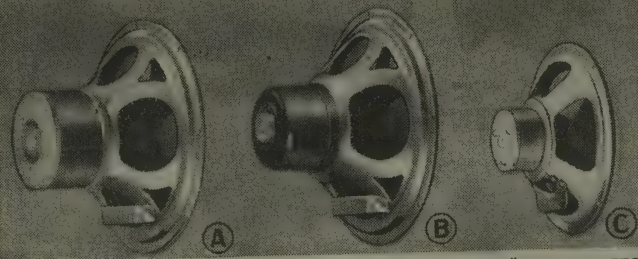
CAR TOP PLATFORM

For mounting baffles, projectors, or horns on roof of auto. Unnecessary to drill holes; will not mar car finish. Made of varnished maple, fully weatherproofed. Vacuum cups and adjustable straps hold platform firmly in place. Quickly attached or removed. Shpg. wt., 8 lbs.

B16130. NET. \$4.09



Knight PERMO-DYNAMIC P. A. SPEAKERS



GUARANTEED FOR ONE FULL YEAR

Every Knight Permo-Dynamic P. A. Speaker you buy is guaranteed for one full year from date of ship. Any Knight Permo-Dynamic P. A. Speaker that does not operate properly because of such defects will be promptly replaced or repaired free of charge. (Burn-outs resulting from overload or guarantee.) We offer this liberal guarantee because we know that every one of these speakers is built of highest quality components, to exacting specifications, and will live up to every claim we make for it.

8"—5 WATTS

Fig. C. An exceptionally efficient, newly designed speaker for all moderate power requirements. Normal rating, 5 watts. Employs 12-oz. magnet in entirely new type of construction to assure excellent sensitivity and fidelity. 6-8 ohm voice coil. Less transformer. Wt., 4 lbs. **B12445. NET...\$2.25**
B12444. Line transformer. **NET...55c**
B12445. Output transformer. **NET...55c**

12"—13 WATTS

Fig. B. A heavy-duty speaker combining remarkable power-handling capacity and true high-fidelity response. Normal rating, 13 watts; peak, 20 watts. Heavy 20-ounce magnet; 6-8 ohm bakelized voice coil. Completely dustproof. Less transformer. Shpg. wt., 6½ lbs. **B12456. NET...\$6.67**
B12438. Line transformer. **NET...75c**
B12439. Output transformer. **NET...75c**

12"—16 WATTS

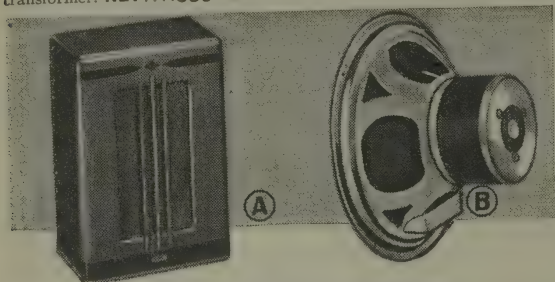
Fig. B. Extra efficiency and power-handling capacity; normal rating, 16 watts; peak 24 watts. Offers amazing fidelity over entire audible range. Heavy-duty 31-oz. magnet; 8-ohm special bakelized voice coil. Complete dustproof construction. Less transformer. Shpg. wt., 8½ lbs. **B12458. NET...\$7.41**
B12440. Line transformer. **NET...89c**
B12441. Output transformer. **NET...89c**

HEAVY-DUTY 12"

Fig. B. Ideal for installations where large areas must be covered with minimum number of speakers. Normal rating, 17 watts; peak, 26 watts. Special 46-oz. magnet; 8 ohm bakelized voice coil. Built to handle extra power with a minimum of distortion. Less transformer. 9½ lbs. **B12457. NET...\$9.80**
B12440. Line transformer. **NET...89c**
B12441. Output transformer. **NET...89c**

GIANT 12-INCH

Fig. A. Specially built to provide life-like fidelity at any volume. Normal rating, full 20 watts; peak, 30 watts. Has extra-heavy 4 lb. magnet; 8 ohm bakelized voice coil; specially treated cone. Fully dustproof. One of the finest speakers available at any price. Less transformer, 13 lbs. **B12442. NET...\$12.95**
B12442. Line trans. **NET...\$1.10**
B12443. Output trans. **NET...\$1.10**



UTAH PERMO-DYNAMIC SPEAKERS

Fig. B. The last word in Permanent Magnet design, these speakers provide extremely high efficiency and sensitivity through the use of a newly developed magnet. Voice coil impedance, 8 ohms; 6-8 ohms for models marked*. Conservatively rated. Supplied less output transformer; select transformer from listing at bottom of this column.

No.	Model	Size	Normal Watts	Magnet Wt.	Shpg. Wt.	NET
B12470	*G8P	8"	10	20 oz.	4½ lbs.	\$ 4.70
B12469	H8P	8"	12	31 oz.	6¼ lbs.	6.91
B12471	*E12P	12"	13	20 oz.	6½ lbs.	7.35
B12472	F12P	12"	16	31 oz.	8¼ lbs.	8.23
B12473	G12P	12"	17	46 oz.	9¾ lbs.	10.88
B12474	GS12P	12"	20	64 oz.	12¾ lbs.	16.17

UTAH FREQUENCY MODULATION SPEAKERS

Expressly designed for the exacting requirements of frequency modulation, quality phono reproduction, etc. 8-ohm voice coils. Response to 9500 C.P.S. for true wide range reproduction. Less output transformers.

B12450	FP820	8"	10	20 oz.	4½ lbs.	\$6.03
B12451	FP1020	10"	11	20 oz.	5¼ lbs.	7.06
B12452	FP1220	12"	13	20 oz.	6½ lbs.	8.82

NEW BAFLEX REPRODUCERS

Fig. A. Enclosed speaker units especially designed for P. A. systems, schools, halls, etc. No "back radiation." Improved bass response. High response to 6500 CPS. Satin bronze finished cabinet made of 1" solid hardwood throughout. Less output transformers.

No.	Model	Speaker	Size	Weight	NET
B16450	M820	G8P	11¼x17¼x24"	38 lbs.	\$17.35
B16451	M831	H8P	11¼x17¼x24"	40 lbs.	19.70
B16452	M123	G12P	12½x22½x31"	52 lbs.	26.17

BAFLEX ENCLOSURES ONLY

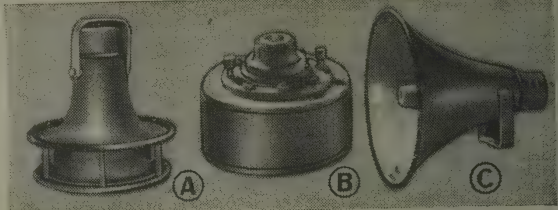
Fig. A. Cabinets as above, less speakers. Of heavy construction to eliminate vibration. Can be used with all speakers above, including F-M.

B16453. For 8" speakers. Shpg. wt., 27 lbs. **NET...\$12.75**
B16454. For 12" speakers. Shpg. wt., 47 lbs. **NET...17.95**

ADJUSTABLE TRANSFORMERS

Universal Plate and line transformers for above speakers. Line type are tapped at 500-1000-1500-2000 ohms; output type 2000-25,000 ohms.

No.	Type	For Speakers	Shpg. Wt.	NET
B12430	Line	G8P, E12P, FP series	1 lb.	\$0.88
B12431	Output	G8P, E12P, FP series	1 lb.	1.88
B12432	Line	H8P	1½ lbs.	1.15
B12433	Output	H8P	1½ lbs.	1.15
B12434	Line	F12P, G12P	1½ lbs.	1.15
B12435	Output	F12P, G12P	1½ lbs.	1.15
B12436	Line	GS12P	2½ lbs.	1.32
B12437	Output	GS12P	2½ lbs.	1.32



UNIVERSITY REFLEX TRUMPETS AND UNITS

A new and important addition to the acoustic reproducer field. Provides a greater degree of electro-acoustic conversion efficiency than ordinary cone speakers and assure unusually wide-angle sound projection. Projectors and driver units are supplied separately. Any driver fits any projector listed, so that you can select the proper combination which will best suit your requirements. All horns have mounting yoke. Type SMH is for public address; type PH, for speech; type LH, for voice and music; type RLH for 360° coverage. For all indoor and outdoor installations. These units combine highest efficiency and true fidelity. New type acoustic rubber rims on projectors eliminate resonance.

HIGH EFFICIENCY REFLEX TRUMPETS

Fig. C. Constructed of extra heavy aluminum with all exposed edge formed into oversized beads. Due to the unique design, the air column is almost three times the overall length of the projector itself. Each horn is tested throughout the audio spectrum, from 30 to 10,000 cycles at full power. Waterproof construction makes these units ideal for outdoor use. Direct sound in narrow beam to farthest possible point.

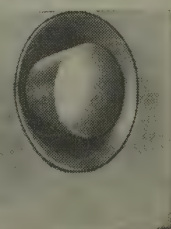
No.	Type	Length Overall	Acoustic Bell Dia.	Low Cut-Off CFS.	Shpg. Wt.	NET
B16446	SMH	12"	32"	14"	180	7 \$ 9.1
B16447	PH	16"	42"	21"	140	9 12.1
B16448	LH	21"	56"	25"	115	12 19.9
B16449	*RLH	19"	60"	26"	110	15 29.4

*Fig. A. Has double acoustic bell; mounts vertically for uniform 360° sound distribution. For highest output use PAH or PLH driver.

PERMANENT MAGNET DRIVER UNITS

Fig. B. These driver units for above projectors are made of the finest materials available. Pole pieces are machined "Armco" electrical quality iron, 99.7% pure. Surface of magnets and washer are ground microscopically flat. Due to exclusive method of voice coil centering, units have far greater efficiency than ordinary speakers. Voice coils are 15 ohm

No.	Type	Watts with Horns	Frequency Range	Shpg. Wt.	NET
B16438	SAH	21 25 27	70-5000	8	\$17.6
B16439	PAH	24 25	60-5500	12	26.4
B16434	PLH	23 24	55-6000	17	35.2



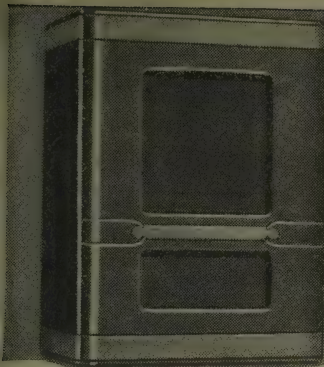
WRIGHT-DECOSTER DOENUT PROJECTOR AND PM UNIT

New type exponential horn with drive unit; spreads high frequencies over unusual wide area without resonance or feedback. Easily handles 15 watts. No sound radiated from back part of horn. Freq. range, 15,000 CPS. 8 ohm voice coil. Size: 22" dia. 13½" deep. Shpg. wt., 20 lbs.

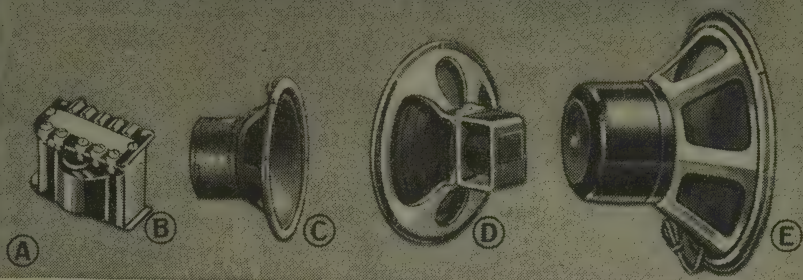
B15940. Model DX8BX. **NET \$21.4**

B15941. Swivel mounting bracket. Shpg. wt., 5 lbs. **NET...\$2.4**

B15942. Line transformer; 500-1000-1500-2000 ohms. Shpg. wt., 1¼ lbs. **NET...\$1.1**



FAMOUS Jensen SPEAKERS



BASS REFLEX PERI-DYNAMICS—Fig. A

Specially designed Jensen speakers housed in rigidly built, scientifically designed enclosures incorporating both Peri-dynamic and Bass Reflex principles. Extra octaves of low-frequency response are made available. Middle and high frequency response is also noticeably improved. Less transformers; see listing below at right for matching transformers.

MODEL KM REPRODUCERS (WITH SPEAKERS)

No.	Speaker	Size	Weight	NET
B16384	PM8C	24" x 17 3/4" x 11 1/4"	31 lbs.	\$15.35
B16385	PM10C	28" x 21 1/2" x 12 1/4"	45 lbs.	18.99
B16386	PM10GS	28" x 21 1/2" x 12 1/4"	45 lbs.	17.23
B16387	PM10H	28" x 21 1/2" x 12 1/4"	50 lbs.	22.81
B16388	PM12C	30 3/4" x 23 3/4" x 12 1/4"	53 lbs.	22.16
B16389	PM12B	30 3/4" x 23 3/4" x 12 1/4"	58 lbs.	29.52
B16390	PM12GS	30 3/4" x 23 3/4" x 12 1/4"	54 lbs.	19.96
B16391	PM12H	30 3/4" x 23 3/4" x 12 1/4"	58 lbs.	26.28
B16392	A12PM	30 3/4" x 23 3/4" x 12 1/4"	66 lbs.	35.25
B16393	PM15B	33 3/4" x 25 1/2" x 13 3/8"	70 lbs.	34.84
B16394	A15PM	33 3/4" x 25 1/2" x 13 3/8"	75 lbs.	39.38
B16395	PMJ18	36" x 27 3/8" x 13 3/8"	173 lbs.	118.95

MODEL KM ENCLOSURES ONLY

Recommended for use with Jensen speakers, but may be used with other speakers of correct size, and will materially improve performance.

No.	Type	Speaker Size	Weight	NET
B16370	BR81	8"	27 lbs.	\$10.35
B16371	BR101	10"	38 lbs.	12.82
B16372	BR121	12"	47 lbs.	14.82
B16373	BR151	15"	55 lbs.	17.20
B16374	BR181	18"	85 lbs.	25.04

HIGH-FIDELITY BASS REFLEX PERI-DYNAMICS

High-fidelity range, 50-10000 CPS. In brown KM cabinet. Recommended for use with FM Receivers.

B16375. MT-8. 8" PM. 6 watts. Size: 24" x 17 3/4" x 11 1/4". 6-ohm voice coil. Wt., 32 lbs. NET.....	\$17.35
B16376. MT-12. 12" PM. 8 watts. Size: 30 3/4" x 23 3/4" x 12 1/4". 6-ohm voice coil. Wt., 53 lbs. NET.....	\$25.58
B15916. 8" speaker only, less cabinet. NET.....	\$5.29
B15917. 12" speaker only, less cabinet. NET.....	\$8.53
B11339. 500-ohm transformer for above models. NET.....	\$1.03

MODEL PAH-8 15 WATT DRIVER UNIT—Fig. C

A new speaker unit especially designed for public address use. Ideal for use with projectors. Handles 15 watt output without distortion. 8" dia. 6-ohm voice coil. Shpg. wt., 11 lbs.

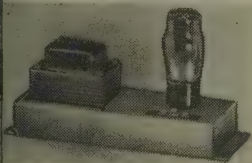
B15915. NET.....	\$9.41
B11349. Line transformer for above. Wt., 2 lbs. NET.....	\$1.32

JENSEN "L" PADS. For use across the voice coil of the speaker. Controls have an "off" and "on" position with gradual, smooth control of speaker output volume. Shafts are 1" long. With knob and indicator plate. Handle up to 5 watts. For 6-ohm voice coil. Shpg. wt., 1 lb.

B9050. Type ST276. NET.....

B9051. Type ST411. As above but handles 15 watts, 8 ohm VC. NET.....

\$2.35



FIELD EXCITER UNIT

very useful field supply unit, using type 80 tube as rectifier. Suitable for operating a DC speaker field on AC. Furnishes 15 watts of tereed DC at 180 volts. Components mounted on metal chassis. Special filter cuts out hum. With 0 volt, 60 cycle transformer. Size, 2 1/2" x 9" x 4 1/2" high. Less tube. E., 5 lbs.

9482. NET. \$2.94



UTAH "L" AND "T" PADS

Heavy-duty pads especially designed to control volume in all high-level circuits such as loud-speakers, mixers, PA amplifiers, and similar uses. Wire-wound; "L" pads rated at 15 watts; "T" pads rated at 10 watts. Mount in 7/8" hole. 1/2" shaft diameter; 7/8" long. Excellent as remote volume controls when installed in speaker lines. With mounting nut and insulating washers.

"L" PADS

Type	No.	Ohms
LA-8	B9052	8
LA-16	B9053	16
LA-500	B9054	500
LA-1000	B9055	1000

NET EACH \$1.91

"T" PADS

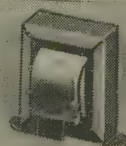
Type	No.
TA-8	B9056
TA-16	B9057
TA-500	B9058
TA-1000	B9059

NET EACH \$2.20

18 WATT UNIVERSAL TRANSFORMER

A splendid value in an accurately designed transformer for connecting one or more speakers to any amplifier. Also recommended for speakers intended for speakers which are located 100 ft. or more from the amplifier, for operation with minimum volume loss. This versatile transformer is supplied with complete instructions for easy installation. As many as four of these transformers can be operated from the 500-ohm tap of any amplifier to accommodate four speakers. Taps are at 500, 1000, 1500 and 2000 ohms. For any voice coil from 4 to 16 ohms. Keep several of these unusually adaptable units on hand. They cover every speaker connection problem which may arise. Size: 2 1/4" x 1 7/8" x 2 1/8" high. Mounting centers, 2 1/4". Shpg. wt., 2 lbs.

B9477. NET. \$1.15



PERMANENT MAGNET DYNAMICS—Figs. D, E

Scientifically designed in the laboratories of the world's leading manufacturer of fine reproducers. Fill all requirements for best fidelity. Correctly balanced and aligned voice-coil and cone assemblies are designed for extremely wide-frequency range without rattles or resonant peaks. New permanent-magnet type field assemblies of highly magnetized alloy require no field voltage. Matching transformers below.

No.	Model	Size	VC.	Watts	Wt. Lbs.	NET
B15920	PM5FS	5"	4	2.5	2	\$ 1.59
B15921	PM6FS	6"	4	3.5	3	2.00
B15922	PM6C	6"	6	6.	4	4.70
B15923	PM8FS	8"	4	3.	2 1/2	2.23
B15924	PM8DS	8"	4	7.	4	6.17
B15925	PM8C	8"	6	8.	5	6.00
B15926	PM10C	10"	6	9.	7 1/2	6.17
B15927	PM10GS	10"	6	8.	6	4.41
B15928	PM10H	10"	8	10.	10 1/2	10.00
B16440	PM12C	12"	6	10.	7 1/2	7.35
B16441	PM12GS	12"	6	9.	8	5.14
B16442	PM12H	12"	8	12.	10	11.46
B16443	PM12B	12"	8	15.	13	14.70
B16444	A12PM	12"	8	15.	17 1/2	20.43
B16445	PM15B	15"	8	17.	15	17.64

HIGH-FIDELITY PM SPEAKERS—FIG. E

Highest quality Jensen Permanent Magnet Dynamic Speakers. Designed for installations which require high fidelity reproduction. Acoustically correct in every detail, these speakers have extended range, greater than the standard models listed above. Response is exceptionally good up to 7500 CPS. Less transformers.

No.	Model	Size	VC.	Watts	Wt. Lbs.	NET
B16396	PM12B	12"	8	14	13	\$14.70
B16397	A12PM	12"	8	15	17 1/2	20.43
B16398	PM15B	15"	8	15	15 1/2	17.64
B16399	A15PM	15"	8	17	21 1/2	22.78

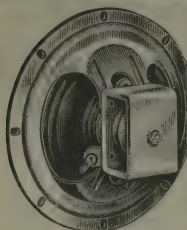
ADJUSTABLE MATCHING TRANSFORMERS—FIG. B

Permit accurate matching of one or more speakers to any output circuit or line. Clip terminals with flexible lead for instant selection of proper impedance. Tube type is tapped at 4500, 7000, 10,000 and 14,000 ohms. Line type is tapped at 500, 1000, 1500 and 2000 ohms. For single or multiple speaker use. For use with Jensen speakers or others.

No.	Type	Mtg. Centers	Watts	VC Ohms.	Wt. Lbs.	NET
For Jensen Speakers PM5FS, PM6FS, PM8FS.						
B11390	Tube	2 1/2"	2.5-3.5	4	1	\$0.53
For Jensen PM6C, PM8C, PM10C, PM10GS, PM12C, PM12GS.						
B11391	Tube	2 1/4"	6-10	6	3	1.32
B11392	Line	2 1/4"	6-10	6	3	1.32
For Jensen Speakers PM8DS.						
B11389	Tube	2 3/8"	7	4	3	.73
B11398	Line	2 3/8"	7	4	3	.88
For Jensen PM10H, PM12H, PM12B, A12PM, PM15B.						
B11393	Tube	3 1/4"	10-15	8	3	1.62
B11394	Line	3 1/4"	10-15	8	3	1.62
For Jensen Speakers A15PM.						
B11395	Tube	2 1/4"	17	8	4	2.20
B11396	Line	2 1/4"	17	8	4	2.20
For Jensen Speakers PMJ18.						
B11397	Line	4"	25	8	6	6.86

Knight

DYNAMIC SPEAKERS —UTAH—



KNIGHT P.M. DYNAMICS

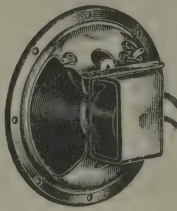
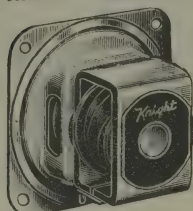
A fine new line of Knight high-quality permanent-magnet dynamic speakers with exceptional features. Extremely sensitive; have surprising high-fidelity reproducing characteristics. Require no field current excitation. Especially suitable for replacement in AC, AC-DC, automobile, or in battery-operated sets. Adaptable to PA systems, extension speakers, small factory call systems, and inter-communication equipment. Highly satisfactory tonal results will be obtained with these speakers. Output transformers not included, but holes or brackets for mounting transformers are provided on speaker frame.

Cat. No.	Size	Voice Coil	Watts	Shpg. Wt.	EACH
B9575	3 1/2"	3-5 Ohms	2	1 1/2 lbs.	\$1.35
B9576	5"	3-5 Ohms	3	2 lbs.	1.38
B9577	6"	3-5 Ohms	3 1/2	2 1/2 lbs.	1.58
B9578	6"	6-8 Ohms	4	3 lbs.	1.80
B9579	8"	6-8 Ohms	5	4 lbs.	2.25
B9580	10"	6-8 Ohms	9	5 lbs.	3.25
B9581	12"	6-8 Ohms	10	6 lbs.	3.65

UNIVERSAL OUTPUT TRANSFORMERS FOR ABOVE

B9590. For 3 1/2", 5" and 6" models. 3-5 ohm voice coils.	40c.	B9592. For 8" model. 6-8 ohm voice coil.	49c.
NET.....		B9593. For 10" and 12" models. 6-8 ohm voice coils.	75c.
B9591. For 6" model. 6-8 ohm voice coil.	40c.	NET.....	
NET.....			

KNIGHT AC-DC REPLACEMENT DYNAMICS



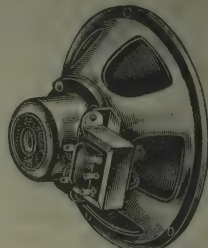
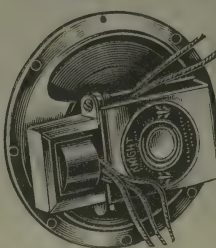
3 1/2-INCH DYNAMIC

Particularly adaptable for small AC-DC sets. Excellent frequency response. 3 1/2 watts maximum input; 4-5 ohm voice coil. Wt., 2 lbs. Less output transformer. Use B9483 listed at right.
B9478. 450 Ohm Field.
B9479. 2750 Ohm.
NET EACH.....95c.

5-INCH DYNAMIC

A very popular replacement type 5" speaker. Will fulfill the requirements of the majority of midset sets. Shpg. wt., 3 lbs.
B9480. 450 Ohm Field.
B9481. 2750 Ohm Field.
NET EACH.....95c.
B9483. Universal output transformers for above.....45c

KNIGHT DYNAMIC SPEAKERS



Knight Speakers cost less, work better, and earn more for you. Universally accepted by discriminating servicemen, they are ideal as replacements or as original equipment. All Knight Dynamics are equipped with universal transformers to match single or push-pull type output tubes. "Tops" in Dynamic Speaker values.

5-INCH DYNAMIC

Developed especially for use in the new compact receivers. 6 volt model is ideal for use as a replacement speaker for auto radios. Voice coil is 3/4" in diameter; impedance is 3 1/4 ohms at 400 cycles. Only 5 inches in diameter and 2 1/2 inches deep. Provided with conveniently spaced mounting holes. With universal transformer to match all tubes. Shpg. wt., 4 lbs.

B9254. 6 Volt Field.
B9284. 1000 Ohm Field.
B9255. 3000 Ohm Field.
NET EACH.....\$1.29

6-INCH DYNAMIC

Adequately fulfills all requirements for fine reproduction in medium-sized sets. Voice coil is 3/4" diameter; impedance is 3 1/2 ohms at 400 cycles. With conveniently spaced mounting holes around rim of speaker. Universal output transformer. Wt., 4 1/2 lbs.

B9256. 6 Volt Field.
B9257. 1000 Ohm Field.
B9258. 1800 Ohm Field tapped at 300 Ohms.
B9259. 2500 Ohm Field.
NET EACH.....\$1.65

8 1/2-INCH DYNAMIC

Ideal for all console receivers and small P.A. Systems. Correctly aligned voice-coil and cone assure maximum efficiency. Voice coil, 7/8" diameter; impedance is 3 ohms at 400 cycles. Diameter overall is 8 1/2"; only 4 1/4" deep. With universal output transformer. Shpg. wt., 7 lbs.

B9260. 6 Volt Field.
B9261. 1000 Ohm Field.
B9262. 1800 Ohm Field tapped at 300 Ohms.
B9263. 2500 Ohm Field.
NET EACH.....\$2.25

12-INCH DYNAMIC

A well-built, heavy-duty speaker with excellent power-handling ability and superior tone quality. Will efficiently handle 8 watts a full volume without distorting or overloading. Ideal for use in console type receivers, indoor or outdoor Public Address systems, etc. Universal output transformer matches all tubes. Wt., 8 lbs.

B9265. 1000 Ohm Field.
B9266. 1500 Ohm Field.
B9267. 2500 Ohm Field.
NET EACH.....\$3.60

UTAH QUALITY DYNAMIC SPEAKERS

PERMO-DYNAMIC SPEAKERS

An entirely new line of P.M. Dynamic Speakers with a quality and sturdiness of construction unmatched at these low prices. A newly designed composition magnet provides amazingly high efficiency; each "Permo-Mag" is fully the equivalent of the same size of electro-dynamic speaker. Finest grade components are utilized. Excellent for use in battery and AC receivers, Public Address systems, etc. Less output transformer. Select transformer from listing below. *Magnet weight.

Cat. No.	Model No.	Size	V. C. Imp.	Normal Watts	Shpg. Wt.	NET EACH
B9268	3P	3 1/2"	3-5	2.5	1 lb.	\$1.59
B9269	5P	5"	6	3	1 1/4 lbs.	1.62
B9270	6P	6"	6-8	4	1 3/4 lbs.	1.94
B9271	8P	8"	6-8	*7 (5 oz.)	2 1/2 lbs.	2.35
B9272	E8P	8"	6-8	*7 (7 oz.)	2 1/2 lbs.	2.65
B9273	10P	10"	6-8	9	4 1/2 lbs.	3.67
B9274	12P	12"	6-8	10	5 1/4 lbs.	5.14

UNIVERSAL TRANSFORMERS FOR ABOVE

B9280. For 5" speaker.	NET EACH.....50c.
B9281. For 6" and 8" speakers.	NET.....88c
B9282. For 10" and 12" speakers.	

NEW "LIGHTWEIGHT PM" SPEAKERS

Especially suited for receivers using low-drain tubes. Ideal for replacing old magnetic speakers when used with high impedance transformer. Voice coil diameter, 1/2". Voice coil impedance, 2 1/2 ohms. Less transformer. Select proper transformer from Single Output list at right. Shpg. wt., 1 lb.



Cat. No.	Model No.	Size	Magnet Weight	NET EACH
B9285	3PY	3 1/2"	1 1/2 oz.	\$0.94
B9286	3PY	3 1/2"	2 1/2 oz.	1.09
B9275	4PY	4"	1 1/2 oz.	1.97
B9276	4PY	4"	2 1/2 oz.	1.12
B9277	6PY	5"	1 1/2 oz.	1.03
B9278	6PY	5"	2 1/2 oz.	1.15

MODEL "Q" DYNAMICS

Each model of these new dynamic speakers incorporates every valuable feature of modern design, providing for excellent reproduction so important to real radio enjoyment.

WITH UNIVERSAL TRANSFORMERS

Their quality construction gives fine frequency response. Each is conservatively rated and has ample power-handling ability. Long efficient life is assured. 5" dynamics supplied less output transformer; have 2 1/2 ohm voice coils.

Cat. No.	Model No.	Size in Inches	Field Ohms	Shpg. Wt. Lbs.	NET EACH
B9322	Q506*	5	6	3	\$1.32
B9323	Q530*	5	†3000	3	1.32
B9324	Q518*	5	†1800	3	1.32
B9321	Q545*	5	450	3	1.32
B9326	Q610	6	1000	4	1.00
B9327	Q618	6	†1800	4	1.00
B9328	Q625	6	2500	4	1.00
B9329	Q810	8	1000	5	1.00
B9330	Q818	8	†1800	5	1.00
B9331	Q825	8	2500	5	1.00
B9332	Q1010	10	1000	9	1.00
B9333	Q1020	10	2000	9	1.00
B9334	Q1025	10	2500	9	1.00
B9335	Q1210	12	1000	10	4.41
B9336	Q1215	12	1500	10	4.41
B9337	Q1220	12	2000	10	4.41
B9338	Q1225	12	2500	10	4.41

*Tapped at 2500 ohms. †Tapped at 300 ohms.
*Select output transformer for 5" speakers from listing below.

SINGLE TUBE OUTPUT TRANSFORMERS

For 5" speakers listed above and new Utah "Lightweight PM" speakers. May also be used as replacements on your old speakers. Compact construction; built for efficient service and splendid tone.
B9346. 2000 Ohms impedance.
B9347. 4000 Ohms impedance.
B9348. 10,000 Ohms impedance.
B9349. 25,000 Ohms impedance.
NET EACH.....35

MAGNETIC & DYNAMIC SPEAKERS

NEW OXFORD SPEAKERS

"LITTLE GENERAL" 2" PERMAG®



Model 2ZMP. This 2" P.M. speaker is the latest development in compact speaker design. Will provide highly efficient performance. Can be used as speaker and microphone in small inter-communication apparatus. Extremely useful for hearing-aid devices and compact AC-DC receivers. Voice coil impedance is 3 to 4 ohms. A special voice coil to grid matching transformer is listed below. Has high output when used as a talk-back mike. Shpg. wt., ¼ lb. **\$1.03**
B9715. Less output transformer. **NET.**

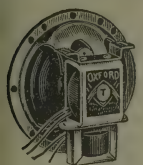
OTHER POPULAR SIZES IN P.M. DYNAMICS

Cat. No.	Model No.	Size	VC Imp.	Power Watts	Shpg. Wt.	NET EACH
B9717	3ZMP	3½"	3-4	1½	2 lbs.	\$1.09
B9718	4ZMP	4½"	3-4	2	2 lbs.	1.15
B9719	5OMP	5"	5	2½	3 lbs.	1.53

TRANSFORMERS FOR ABOVE SPEAKERS

UNIVERSAL 500 OHM LINE
B9721. For 2", 3½", 4½", and 5" models. 3-5 ohm V.C. **NET EACH. 59c**
B9722. For 2", 3½", 4½", and 5" models. 3-5 ohm V.C. **NET EACH. 38c**
B9723. Voice coil to grid for 2", 3½", and 4½" models. **NET. 59c**

ELECTRO-DYNAMIC SPEAKERS



Here is a line of high-quality Electro-dynamic speakers to meet all replacement or custom-building needs. Quality speakers; assure excellent frequency response and long-life performance. Removable mounting brackets supplied only with the 5" speaker. All models, except the 5" speakers, have universal output transformers. The 6½" models have elongated holes in the mounting flange to fit either 6" or 6½" speaker opening. Voice coil impedance for all models, 5 ohms. Oxford quality construction throughout.

Cat. No.	Model No.	Size	Field Ohms	Shpg. Wt.	NET EACH
B9700	V51*	5"	2750	1½ lbs.	\$1.53
B9701	V52*	5"	1800**	1½ lbs.	
B9702	V55*	5"	6 volt	1½ lbs.	
B9703	J61	6½"	2750	2 lbs.	2.00
B9704	J62	6½"	1800**	2 lbs.	
B9705	J64	6½"	6 volt	2 lbs.	
B9706	J81	8"	2500	4 lbs.	2.59
B9707	J82	8"	1800**	4 lbs.	
B9708	J84	8"	6 volt	4 lbs.	

* Single 43, 42, or 41 output. **300 ohm tap.

QUAM QUALITY P.M. SPEAKERS



A famous line of first quality speakers, noted for dependable and efficient performance. Designed to provide greatest possible frequency response. Ruggedly constructed; completely dustproofed. For use in battery, AC-DC, portable, and auto sets, or small P.A. systems. Voice coils 4 ohms at 400 cycles. Transformers supplied separately as listed below.



JUNIOR P.M. SPEAKERS (B)

No.	Size	Magnet	Rating	Shpg. Wt.	NET
B9303	4"	2 oz.	1.5 W.	2 lbs.	\$0.94
B9304	4"	4 oz.	2.5 W.	2 lbs.	
B9305	5"	4 oz.	2.5 W.	2 lbs.	
B9306	6½"	4 oz.	2.5 W.	3 lbs.	1.47
B9307	8"	5 oz.	3.5 W.	3 lbs.	1.76

SENIOR P.M. SPEAKERS (A)

No.	Size	Magnet	Rating	Shpg. Wt.	NET
B9308	5"	5 oz.	3.5 W.	3 lbs.	\$1.76
B9487	6½"	8 oz.	5.5 W.	3 lbs.	
B9488	8"	8 oz.	7 W.	3 lbs.	
B9489*	12"	48 oz.	25 W.	9 lbs.	8.73

Voice coil impedance is 6 ohms at 400 cycles.

UNIVERSAL OUTPUT TRANSFORMERS

B9492. For all speakers above except 12" size. **NET. 59c**
B9493. For 12" speaker, B9489. **NET. 94c**

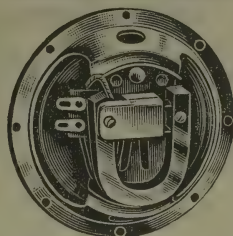
QUAM PERMANIC SPEAKER



A general utility type speaker of the moving armature type. Sturdy construction with genuine Alnico magnets for long life. Suitable for use in portable battery or AC-DC sets, intercom paging or call systems, and many similar applications. Requires no field current and no output transformer. Use 500-ohm models for multiple speaker systems or on long lines. High impedance models match any output tube with plate impedance of 12000 to 25000 ohms. Wts.: 4"—¼ lb.; 5"—1 lb.; 6½"—1½ lbs.

Ohms	4"	NET	5"	NET	6½"	NET
2000-25000	B9339	\$1.12	B9341	\$1.12	B9343	\$1.32
500	B9340	1.12	B9342	1.12	B9344	1.32

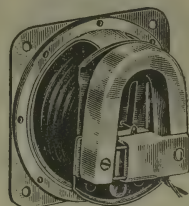
KNIGHT MAGNETIC SPEAKERS



5-INCH MAGNETIC

A well-designed midget type speaker. Has rigid, pressed-steel frame and large-sized magnet. Small size makes speaker ideal for use where space is limited. Provides unusually fine tone. DC resistance is 1000 ohms. Ideal for compact sets. Shpg. wt., 3 lbs.

B9251. NET. 96c



3-INCH MAGNETIC

One of the smallest speakers on the market—only 3" in diameter. For use in pocket-sized midget sets, intercom systems, and small SW receivers. Rigid pressed-steel frame; full-sized magnet and coil. 2½" mtg. centers. Wt., 1½ lbs.

B9459. With 3½" mtg. flange. **NET. 98c**

B9458. Less flange. **NET. 88c**

6-INCH MAGNETIC

A sturdy and powerful magnetic speaker only 6" in diameter. Has heavy pressed-steel frame and large magnet. Improved armature design. Handles up to 1 watt output. DC resistance, 1000 ohms. For use in battery and AC-DC sets, etc. Wt., 4 lbs.

B9252. NET. \$1.10

8½-INCH MAGNETIC

A very efficient speaker which will handle up to 1½ watts output without distortion. Has heavy-duty magnet. DC resistance 1000 ohms. Ideal for battery sets, as extension speaker, and for multiple speaker installations in schools, etc. 5 lbs.

B9253. NET. \$1.65

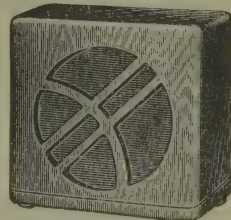
WOOD CABINET MODEL

8½-INCH MAGNETIC

Handsome new walnut-finished wood cabinet with built-in speaker, ideal for extension use or for multiple speaker installations. The sturdy speaker is 8½" in diameter, 3½" deep. Has heavy pressed-steel frame, large magnet, and improved armature structure with 1000 ohms DC resistance to match most multiple speaker lines. Provides excellent frequency response. Attractive matching grille cloth. With 6 foot cord. Shpg. wt., 8 lbs.

B9486. Less Volume Control and On-Off Switch. **\$2.75**

B9485. With Volume Control and On-Off Switch. **\$3.25**



WALNUT CABINET ONLY

Speaker cabinet, 9¼x9¼x5½", is also offered separately. Has grilles at both front and back. Will house 8" or 8½" speaker. **\$1.40**

B9449. NET. \$1.40

JENSEN SERIES "S" DYNAMICS

A new series of high-grade speakers for general replacement purposes. Noted for ruggedness and excellent tonal response. Less transformer. If justifiable output transformer is needed, order B11399 at 53c net. *With transformer. †Tapped at 300 ohms.

MODEL H5S 5-INCH

Cat. No.	Field Coil	Input Imped.	NET EACH
B15900	3000 ohms	4500 ohms*	\$1.82
B15901	2750 ohms	4 ohm VC	\$1.41
B15902	1000 ohms	4 ohm VC	
B15903	6 Volt	4 ohm VC	



MODEL H6S 6-INCH

Cat. No.	Field Ohms	Input Imped.	NET EACH
B15904	2750	4 ohm VC	\$1.65
B15905	±1800	4 ohm VC	
B15906	1000	4 ohm VC	
B15907	6 V.	4 ohm VC	

MODEL F8RS 8-INCH

Cat. No.	Field Ohms	Input Imped.	NET EACH
B15908	2500	4 ohm VC	\$2.35
B15909	±1800	4 ohm VC	
B15910	1000	4 ohm VC	
B15911	6 V.	4 ohm VC	

WRIGHT-DECOSTER MAGNETICS

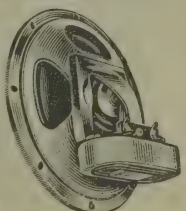
The Wright-DeCoster Hyflux is an improved type of magnetic speaker with rich and mellow tone quality. Features: compact assembly, one-piece diaphragm, climate-proof construction, and excellent frequency response.

6" SPEAKERS

Diam. 6½"; depth, 2½". Wt., 2 lbs.
B9317. 7000 ohms.
B9316. 10,000 ohms.
NET EACH. \$1.47

8" SPEAKERS

Diam. 8½"; depth, 2½". Wt., 3 lbs.
B9318. 7000 ohms.
B9319. 10,000 ohms.
NET EACH. \$1.53



REPLACEMENT PARTS FOR SPEAKERS

CARRON EXACT DUPLICATE QUALITY SPEAKER CONES

Duplicate replacement cones accurately designed and carefully constructed to match the originals. One piece seamless material is used; noted for enduring, non-resonant quality. An accurately wound voice coil is attached to each cone. Cones are precisely molded by patented process to secure excellent tonal quality and long life. Voice coils are also exact duplicates of the originals in all specifications. For improved tone quality, replace your old speaker cones with these reliable exact duplicates.

Approximate cost for cones not listed below: 5" to 6" cones—\$0.90; 7" to 9" cones—\$1.50; 10" to 12" cones—\$1.95; cones 13" and over—not to exceed \$2.75. Send in old cone with remittance. Name, size of speaker, numbers or letters stamped on speaker and cone will help us give you faster service. If entire speaker is sent in for cone installation, add 75c to above prices for all but 5" to 6" cones. Add 50c for 5" to 6" cones. Average ship. wt. of cones, 4 lbs.

SPEAKER REPAIR AND CLEANING SERVICE



Repair your old speaker and bring back its original performance. Our speaker engineers will replace entire cone with a new one-piece genuine CARRON seamless cone, blow out all dust particles and other causes of hazy reception, align voice coil so it rides smoothly without rubbing, and put speaker in almost new condition for small charges as outlined at left.

No.	Set or Speaker No.
5" SPEAKER CONES	
B9350.	Airline 62-274, 288, 290, 326, 336, 350, 351, 352.
B9351.	Airline 62-518.
B9352.	Airline 62-236, 263.
B9352.	Airline 62-475, 425.
B9354.	Arvin 467, 518.
B9355.	Arvin 568, 518.
B9352.	Arvin 18, 41.
B9350.	Belmont 425.
B9356.	Belmont 517.
B9357.	Belmont 663.
B9358.	Belmont 580.
B9353.	Belmont 666, 690.
B9359.	Belmont 401A.
B9360.	Chevrolet 985426 (Magnavox ID-1400).
B9361.	Chevrolet 985426 (Utah).
B9362.	Chevrolet 985425.
B9363.	Chevrolet 985253.
B9350.	Crosley 628, 636, 648.
B9356.	Crosley 517.
B9351.	Crosley A157, 547, 5517.
B9364.	Crosley A366, 515 (Magnavox).
B9365.	Crosley 516.
B9366.	Crosley 515 (Utah).
B9351.	Delco R663.
B9357.	Delco R1135, R1193.
B9364.	Delco R640, 631A, 4009 (Magnavox ID-76).
B9353.	Delco 640, 631A (Op-radio).
B9357.	Emerson BA199-201.
B9358.	Emerson 250AW.
B9364.	Emerson 107, 111.
B9352.	Emerson K116, 121, 123.
B9356.	Emerson 157.
B9359.	Emerson "A".
B9357.	Emerson A130, 132, 148, 149.
B9356.	Kadette 68.
B9354.	Kadette 21, 22, 23, 86.
B9368.	Majestic G26A.
B9372.	Quam (Motorola 35, oval spider).
B9375.	Rola F4, Emerson 14B, 108.
B9350.	Zenith PT49-242, 49-237, 49-238, 49-262.
B9358.	Zenith PT49-115.
B9353.	Zenith 6M91.
B9352.	Zenith 5M191, 6M192, 6D119.
ANY 5" CONE, NET...\$7.3c	
6" SPEAKER CONES	
B9380.	Admiral 5A, 5X, 6B, 6M, A1, A2, A3.
B9381.	Airline 62-173 to 62-179 inclusive.
B9381.	Arvin 20A, 25, 29, 15.
B9382.	B. O. P. 1304873, 127249.
B9381.	Belmont 740, 667.
B9383.	Belmont 777.

No.	Set or Speaker No.
B9384.	Bosch 505, etc.
B9379.	Cadillac C-8-53.
B9381.	Chevrolet 985252.
B9382.	Crosley 645.
B9382.	Delco 500, 630, 1210540.
B9382.	Fairbanks-Morse C4, C5, 9A.
B9386.	Fairbanks-Morse 58T1, 58T2, 68T6 (Quam).
B9387.	General-Electric A52, A55, A64, A65, A70, A83.
B9383.	Jensen PE6C, G6R.
B9389.	Majestic G24.
B9383.	Motorola 75.
B9390.	Motorola 45.
B9395.	Rola DP5 (Crosley 166), (Emerson UV4).
B9381.	Sentinel 72A, 600.
B9397.	Sentinel 19A, 510.
B9383.	Spartan 537, 547, 518, 548, 558, 568, 577, 578.
B9397.	Spartan 616, 67, 68.
B9382.	Stewart Warner R232 R131.
B9396.	Stewart Warner R123, R116, R118, R220, R223, R224.
B9381.	Wells-Gardner 71, 6D.
B9398.	Wells-Gardner 6K.
B9385.	Wells-Gardner 6J.
B9384.	Westinghouse WR209, WR211.
B9381.	Zenith PT49-81.
B9383.	Zenith 49-143.
B9397.	Zenith 49-162.
B9400.	Zenith 5FB4, 5F34, 49-153.
ANY 6" CONE, NET...\$8.8c	
8" SPEAKER CONES	
B9405.	Ariston.
B9405.	Aircast 885, 4068.
B9406.	Airline 62-175, 62-176, 62-190.
B9407.	Chevrolet 985283.
B9408.	Chevrolet 985284.
B9409.	Chevrolet 985285.
B9410.	Chevrolet 601308, 985225, 985280.
B9411.	Chevrolet 985301.
B9412.	Crosley M45, Model 262, 40S, 425, 30S.
B9413.	Crosley 717.
B9410.	Crosley 143, 146, 157, 68, 315-4, 325-4, 7H-2.
B9414.	Delco 665, 666.
B9406.	Delco 363C, 366C.
B9415.	General Electric A52, A55, A64, A70, A83.
B9416.	G.E. E61, E71, E72, E81, E91, E10S, E11S.
B9417.	Grunow 450, 660, 662, Spkr. 8B1, 8B2.
B9418.	Jensen D15.
B9419.	Jensen D16.
B9420.	Jensen PM8D.
B9421.	Majestic G10B.

No.	Set or Speaker No.
B9420.	Motorola 65, 8-50, 70.
B9410.	Motorola 60, 88, 100.
B9414.	Motorola 65.
B9410.	Olds 405062.
B9411.	Olds 982084, 982126.
B9414.	Pontiac 983534.
B9411.	Pontiac 983526.
B9431.	Rola F6, F8.
B9411.	Rola K8 (Chev. 983534).
B9432.	Stewart Warner 102A, 104A, R110, etc.
B9433.	Stewart Warner R273.
B9434.	Utah Isodyne.
B9406.	Zenith Pt. 49-116, 49-152.
B9435.	Zenith Pt. 49-117.
ANY 8" CONE, NET \$1.18	
9" SPEAKER CONES	
B9439.	Magnavox D7, D8, etc.
B9440.	Majestic G6, G7.
B9441.	Majestic G2.
ANY 9" CONE, NET \$1.32	
10" SPEAKER CONES	
B9443.	AK15142 Mod. 55, etc.
B9444.	AK14374 Models 55, etc.
B9445.	Jensen PM10C.
B9446.	Majestic G3.
B9447.	Majestic G6, G7.
B9448.	Majestic G19.
B9450.	Motorola "Golden Voice."
B9450.	Operadio 7505.
ANY 10" CONE, NET \$1.47	
12" SPEAKER CONES	
B9454.	G.E. E61, E68, E81, E86, E26, E10S, M91E, E76.
B9455.	Grunow Spkr. 12A1, 12A2, 12A6, 12G-4-1.
B9456.	Jensen D7.
B9457.	Jensen D9 inside spider.
B9460.	Jensen X12, 1 1/2" V.C.
B9461.	Jensen X12, 1" V.C.
B9462.	Jensen C12R, X12, 1 1/2" V.C.
B9463.	Jensen PM12B.
B9464.	Jensen PM12C.
B9465.	Lyric 412.
B9466.	Magnavox 132.
B9467.	Majestic G5, G8, G9.
B9468.	Majestic G12.
B9469.	Majestic G23.
B9471.	Rola G12.
B9472.	Utah E12P, 12LF, 12G.
B9473.	Utah F12P, GT13.
B9474.	Utah No. 1270.
B9475.	Wright De Coster 107.
ANY 12" CONE, NET \$1.70	

FOR PHILCO SETS

Stock	Set Model or Speaker No.	Dia.	NET
B6369	Philco C32 Ford	5 1/2"	\$0.59
B9370	Philco Pt. No. 02861, Mod. 28, 48, 50, 80, 81	5 1/4"	.59
B9371	Philco Pt. No. 45-1344, 38-12 (121)	5 1/2"	.59
B9391	Philco F1540	6 1/2"	.59
B9392	Philco Mod. C1608	6"	.59
B9393	Philco Pt. No. 36-4087, 39-25 (121-122), 39-30T (121)	6 1/2"	.73
B9422	Philco F1640	7 1/2"	.58
B9424	Philco Pt. No. 36-3159, Mod. 6, 7, 8, 9, 10, 12, 14, 15, 19, 43, 47, 71, 89, 91	7 1/4"	.58
B9425	Philco Pt. No. 36-3157, Mod. 34B, 38B, 60B, 66B	7 1/2"	.58
B9426	Philco Pt. No. 45-2607, K50	7 3/4"	.73
B9427	Philco Mod. C1550	7 3/4"	.58
B9428	Philco Pt. No. 36-3540, 37-643, 38-22T, 38-624	7 1/2"	.58
B9423	Philco 90, 46, 20, 21, 70, 470, 490, 650	8 1/2"	.73
B9451	Philco 8, 65, 95, 76, 96, 77, 45, 111, 90, 112	10 1/2"	.83

FOR RCA SETS

Stock	Set Model or Speaker No.	Dia.	NET
B9430	RCA PTX3, R24	4"	.58
B9373	RCA PT. No. 9023, Mod. M34, M105	5"	.58
B9374	RCA Pt. No. 8987, Mod. R28, R 28 P, R E 4 O, RE40P, 100-1, 110-1, 114-15, M116, 300, 301	5"	.58
B9394	RCA Pt. No. 9428, Mod. R37, R38, R38P, 112, 121, 122, 124, 126B, 241B, 310, 320, ACR13, M123, M107, 118	6 1/2"	.58
B9429	RCA M101, M104, 5T6, 5T7, 5T8, 6M, 6M2	6 1/2"	.58
B9442	RCA-Victor R32, RE45, etc.	9"	1.0
B9452	RCA 106, R80, R81, R83, R39, RE57, R34, R50	10 1/2"	1.1
B9453	RCA 48A, R6, R7, R8, R9, R10, R11, R12, RE16, R18, R21, RO23, R43, R48	10 1/4"	.83

EXACT DUPLICATE FIELD COILS

We can supply any exact duplicate coil. See box at left. Listing below is only representative.

No.	Set or Speaker	Ohms	NET
B2950.	Apex 26 (1 1/4 x 2 3/8 x 1 1/2")	11,500	\$1.35
B2955.	Apex 8A (7/8 x 2 1/4 x 1")	6,600	1.35
B2966.	Majestic G2	2,730	3.15
B2951.	Philco 20	3,100	1.18
B2952.	Philco 86, 87, 65, 95, 76, 96, 77	3,200	2.65
B2953.	Philco 70	3,600	1.18
B2954.	Victor RE32, 45, 75	2,950	2.79

NOTE: We can supply from stock, universal field coils at prices ranging from 59c for AC-DC coils to \$1.82 for larger sized speaker coils. We can also supply exact duplicate field coils. Just slip your burned-out or defective field coil from field pot, and send it to **ALLIED** with small deposit. Give complete information, manufacturer and size of speaker, name and model number of set. Specify whether a UNIVERSAL type replacement or an EXACT duplicate field coil is required. Prices of exact duplicate coils are in some cases slightly higher than universal duplicates as they must be wound to order.

CENTERING SHIMS

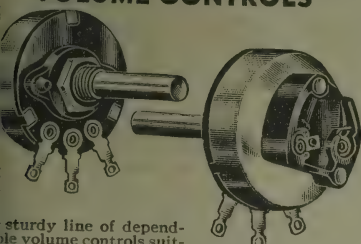
Celluloid spacers for centering speaker voice coils and armatures. Kit includes: 4 shims—.005; 4 shims—.0075; 4 shims—.010; 4 shims—.0125. In handy leather case. **Wt. 5 oz.**
B2999. NET...\$3.5c

SPEAKER CONE CEMENT

Cements speaker cones, paper rings and felts to speaker frames. Dries quickly. 3 oz. size. Shipping wt., 6 oz.
B2931. NET...\$2.4c

Finest Quality VOLUME CONTROLS

KNIGHT UNIVERSAL VOLUME CONTROLS



sturdy line of dependable volume controls suitable for any purpose. Smooth contact action assures quiet operation. Efficient, moisture-proof units. Conservatively rated at one watt. Case, 1 3/4" diameter; shaft 1/4" dia., extends 1/2". Code letter following resistance value indicates use. A—Antenna control. U—Common Antenna and C bias. W—C bias control. Linear Potentiometer. T—Tone Control audio shunt. Shipping wt., 5 oz.

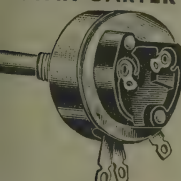
No.	Ohms	No.	Ohms
5960	1000A	B5965	25000P
5961	2000A	B5966	50000T
5962	3000P	B5967	75000W
5963	5000U	B5968	100000T
5964	10000U	B5969	250000T
	15000P	B5970	500000T
	20000W	B5971	1 Meg. T

SETS OF 5, EACH, 25c.
NET EACH, LESS SWITCH..... **28c**

A.C. SWITCH

5972. Standard SPST AC switch for use with Knight Volume Controls listed above. Easily attachable. NET..... **12c**

UTAH-CARTER CONTROLS



Insulated contact arm. Flatted 3" shaft, 1/4" dia., 1 1/2" body dia.; 3/4"x3/8" bushing. Mount in 3/8" hole. Standard taper. Carbon units; 2 W., 1 1/2" depth. W.W. units; 4 W., 1 1/4" depth. Shpg. wt., 5 oz.

Specify Values.

WIRE-WOUND		CARBON	
Ohms	Ohms	Ohms	Ohms
30	5000	10000	100000
50	10000	15000	200000
100	15000	20000	250000
400		25000	500000
1000		50000	1 Meg.

5965. Wire-Wound. Less Switch.
5966. Carbon. Less Switch.
NET EACH..... **30c**

ATTACHABLE SWITCHES

5951. SPST. For carbon controls.
5967. SPST. For W.W. controls.
NET EACH..... **14c**

UTAH-CARTER MIDGETS



Extremely compact, precision-built wire-wound units. Only 1 1/4" dia. and 1/4" deep back of panel. Open construction provides maximum heat radiation. Dissipate 3 watts. Single hole mounting type. Shaft 1/4" diameter, 1 1/2" long from bushing. Shpg. wt., 5 oz.

POTENTIOMETERS

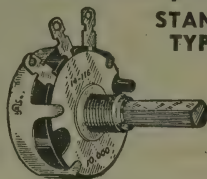
No.	Ohms	No.	Ohms
5920	6	B9025	400
5922	10	B9026	500
5923	15	B9027	1000
5924	20	B9028	1500
	200		

RHEOSTATS

No.	Ohms	No.	Ohms
5930	1/2	B9037	20
5931	1	B9038	25
5932	2	B9039	30
5933	3	B9040	40
5934	6	B9041	50
5935	10	B9042	75
5936	15		

EACH..... **23c**

FAMOUS QUALITY STANDARD TYPE CS



Uses: A—Potentiometer, uniform resistance change; C—Audio grid or antenna shunt; D—Grid bias and antenna; F—Antenna and low current bias; H—Audio level control for bass compensation. *Supplied with 300 ohm 1/2 watt insulated metallized resistor. Wt., 8 oz.

No.	Type	Use	Ohms
B11900	11-103	A	500
B11901	11-108	A	1000
B11902	11-110	A	2000
B11903	11-112	A	3000
B11904	11-113	A	4000
B11905	11-114	A	5000
B11906	13-114	C	5000
B11907	11-115	A	7500
B11908	16-116	F	10000*
B11909	11-116	A	10000*
B11910	14-116	D	10000*
B11911	13-116	C	10000
B11912	14-118	D	15000*
B11913	16-118	F	15000*
B11914	16-119	F	20000*
B11915	14-120	D	25000*
B11916	11-120	A	25000
B11917	11-123	A	25000
B11918	13-123	C	50000
B11919	13-125	C	75000
B11920	14-125	D	75000*
B11921	11-128	A	100000
B11922	13-128	C	100000
B11923	11-129	A	200000
B11924	14-129	D	200000*
B11925	13-130	C	250000*
B11981	14-130	C	250000*
B11982	13-132	C	350000
B11926	13-133	C	500000
B11927	11-133	A	500000
B11983	14-133	D	500000
B11929	13-137	C	1 Meg.
B11930	13-140	C	2 Meg.
B11931	11-141	A	5 Meg.
B11935	11-141	A	5 Meg.
B11937	11-142	A	7 Meg.
B11936	11-143	A	10 Meg.

Less Switch
NET EACH..... **59c**

TAPPED CONTROLS

No.	Type	Ohms	Less Switch
B11984	13-130X	A 250000	
B11985	18-130X	A 350000	
B11986	18-132X	H 350000	
B11928	13-133X	H 500000	
B11933	13-137X	H 1 Meg.	
B11930	VC-539X	A 1 Meg. x	
B11934	13-139X	H 2 Meg.	

x—Special control for use as fader.

ATTACHABLE SWITCHES

B11988. S.P.S.T. Switch. NET..... **29c**
B11989. D.P.S.T. Switch. NET..... **35c**

TYPE W WIRE-WOUND

Wire-wound controls with positive contact between terminal and rotor arm. Resistance value does not change on overload. Rated at 2 watts. Case, 1 1/4" diam. x 3/8" deep, 3" shaft. Special switches below. Shpg. wt., 8 oz.

No.	Type	Ohms	No.	Type	Ohms
B14200	W6	6	B14212	W200	200
B14201	W8	8	B14213	W300	300
B14202	W10	10	B14214	W400	400
B14203	W15	15	B14215	W500	500
B14204	W20	20	B14216	W750	750
B14205	W25	25	B14217	W1000	1000
B14206	W30	30	B14218	W2000	2000
B14207	W40	40	B14219	W3000	3000
B14208	W50	50	B14220	W4000	4000
B14209	W60	60	B14221	W5000	5000
B14210	W75	75	B14222	W7500	7500
B14211	W100	100	B14223	W10000	10000

NET EACH..... **59c**

SWITCHES FOR ABOVE

B14224. S.P.S.T. Switch. NET..... **29c**
B14225. D.P.S.T. Switch. NET..... **35c**

IRC GUIDE

Shows exact duplicate and replacement volume controls for nearly every radio. Contains technical data and IRC Resistor Catalog. Latest edition with new supplement covering late models.

B11938. FREE.



VOLUME CONTROLS TYPE D MIDGETS



IRC Midget Controls are designed for use where installation space is limited. Identical in internal construction with the Standard Type CS control. All units are furnished with detachable plug-in Type A shaft—less switch. Attachable switches listed below. Case diameter, 1 1/4". Case depth, less switch, 3/4"; with switch, 5/8". Bushing length, 3/8"; diameter, 3/8". Shaft types B, C, and D must be ordered separately. Type B is for use where slotted or tongued shaft is required. Types C and D are for use with push-on knobs requiring a split knurled or unknurled shaft. For curve uses see description of standard CS controls at left. All controls are designed to accommodate any one of the special shafts listed below. Instructions included. Wt., 6 oz.

No.	Type	Ohms	No.	Type	Ohms
B14266	D11112	3000A	B14277	D13125	75000C
B14267	D11114	5000A	B14278	D14125	75000D
B14268	D11115	7500A	B14282	D13128	100000C
B14269	D11116	10000A	B14279	D11130	250000A
B14271	D14116	10000*D	B14280	D13130	250000C
B14272	D16116	10000*F	B14283	D13132	350000C
B14273	D16118	15000F	B14284	D11133	500000A
B14274	D14120	25000D	B14285	D13133	500000C
B14275	D13123	50000C	B14286	D13137	1 Meg C
B14276	D14123	50000D	B14287	D13139	2 Meg C
			B14287	D13140	3 Meg C

*With 300 ohm, 1/2 watt resistor.

NET EACH..... **59c**

TAPPED CONTROLS

No.	Type	Ohms	Less Switch
B14288	D18-130X	250000H	
B14289	D13-130X	250000A	
B14290	D18-132X	350000H	
B14291	D13-133X	500000H	
B14292	DVC-539X	1 Meg A	
B14293	D13-137X	1 Meg H	
B14294	D13-139X	2 Meg H	
B14295	D18-139X	2 Meg H	

Less Switch
EACH..... **88c**

ATTACHABLE SWITCHES

B14297. SPST Switch. NET..... **29c**
B14298. DPST Switch. NET..... **35c**

SPECIAL SHAFTS

B14245. Type B. For auto radios..... **21c**

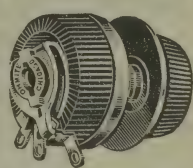
Types below are for push-on knobs.

B14246. Type C. Knurled. NET.....

B14247. Type D. Plain. EACH..... **15c**

OHMITE VITREOUS ENAMELED RHEOSTATS

Heavy-duty wire-wound rheostats for radio and power control circuits. Ratings are conservative. Air-cooled. Large contact shoe of metal impregnated with carbon-graphite insures good contact. Insulated shaft; requires 3/4" mounting hole. 3 terminals; may be used as potentiometer. Underwriters' Approved. Shipping wt., 1 lb.



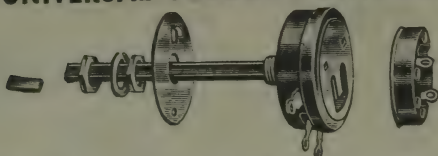
Model H-25 Watt			Model J-50 Watt		
No.	Ohms	EACH	No.	Ohms	EACH
B6600	1	\$2.65	B6622	5	
B6601	2		B6623	1	\$2.94
B6603	6		B6624	2	
B6605	10		B6625	4	
B6606	15		B6626	8	
B6607	25		B6627	12	
B6609	50		B6628	22	
B6611	100		B6630	50	
B6612	175		B6631	80	
B6613	250		B6632	150	
B6615	500		B6633	225	
B6616	750		B6634	300	
B6617	1000		B6635	500	
B6618	1500		B6637	1000	
B6619	2500		B6639	2500	
B6620	3500		B6641	5000	
B6621	5000		B6643	10000	

MODEL K-100 WATTS

No.	Ohms	EACH	No.	Ohms	EACH
B6405	0.5		B6410	50	
B6406	2	\$4.41	B6411	100	\$4.12
B6407	3		B6412	500	
B6408	10	4.12			
B6409	25		B6413	1000	4.41

MALLORY-YAXLEY VOLUME CONTROLS

UNIVERSAL VOLUME CONTROLS



Listings on these pages constitute practically all of the Yaxley Volume Controls. With a comparatively small stock, you can now meet the requirements of 90% of all repair jobs. Universal controls, supplied with knob adapter, washer, and nuts. With detachable end cover plates and 3" shaft which can easily be shortened. These controls are manufactured to exacting uniform specifications. All controls are listed LESS SWITCHES. Shpg. wt. without switch, 5 oz. **NOTE: All units shipped less switch unless one is ordered. See switch prices below.**

STANDARD UNIVERSAL CONTROLS

No.	Ohms	Type	Taper	No.	Ohms	Type	Taper
B8583	2	Q	IV	B8618	15000	*H12	I
B8584	6	R	IV	B8619	15000	*H7	II
B8585	10	S	IV	B8620	15000	*H7	VII
B8586	20	T	IV	B8621	20000	*A20MP	IV
B8587	30	U	IV	B8622	20000	*V	I
B8588	60	V	IV	B8623	25000	*Y25MP	IV
B8589	100	W	IV	B8624	25000	*J	IV
B8590	200	X	IV	B8625	50000	*Y50MP	IV
B8591	400	*A400P	IV	B8626	50000	*K12	II
B8592	500	*A	I	B8627	50000	*K	II
B8593	500	*A550P	I	B8628	75000	*Z12	I
B8594	1000	*C1MP	I	B8629	75000	*Z	I
B8595	1000	B	IV	B8630	100000	*Y100MP	IV
B8596	1000	*UC500	II	B8631	100000	N	II
B8597	2000	*A2MP	I	B8632	100000	*UC510	II
B8598	2000	*C12	II	B8633	150000	*UC502	I
B8599	2000	*C	II	B8634	200000	*Y200MP	IV
B8600	3000	*C3MP	I	B8635	250000	*Y250MP	IV
B8601	3000	*D12	I	B8636	250000	M	I
B8602	3000	*D	II	B8637	250000	*UC511	II
B8603	3000	*D7	VII	B8638	250000	*UC509	I
B8604	5000	*A5MP	IV	B8639	500000	*Y500MP	IV
B8605	5000	*Y5MP	IV	B8640	500000	N	I
B8606	5000	*E12	I	B8641	500000	*UC512	I
B8607	5000	*E	II	B8642	500000	*UC515	I
B8608	5000	*F	VII	B8643	500000	*UC513	II
B8609	7500	*F12	I	B8644	750000	*UC503	I
B8610	7500	*F	II	B8645	1 Meg.	*Y1000MP	IV
B8611	7500	*F7	VII	B8646	1 Meg.	O	I
B8612	10000	*A10MP	IV	B8647	1 Meg.	*UC514	I
B8613	10000	*Y10MP	IV	B8648	2 Meg.	O	I
B8614	10000	*C12	II	B8649	3 Meg.	*UC504	I
B8615	10000	*C	II	B9000	4 Meg.	*UC505	I
B8616	10000	*C501	II	B9001	5 Meg.	*UC506	I
B8617	10000	*C7	VII	B9002	5 Meg.	*UC507	II
				B9003	9 Meg.	*UC508	I

* Adjustable Bias.
† Slotted shaft for auto sets.
‡ Long shafts for auto sets, etc.
§ Wire-Wound. Rest are Carbon.

STANDARD ATTACHABLE SWITCHES

Volume controls listed on this page do not have switches. Select switch to fit control requirements from listing below. Shpg. wt., 2 oz.

B9004. Type 6-9. Standard S.P.S.T. Special thin design. List, 50c. NET.....29c	B9006. Type 8. S.P.D.T. List, 60c. NET.....35c
B9005. Type 7. D.P.S.T. Similar to type 6-9. List, 60c. NET.....35c	B9007. Type 13. Shorting. (3PST) List, 60c. NET.....35c
	B9008. Type 14. Shorting. (4PST) List, 60c. NET.....35c

EXPLANATION OF YAXLEY TAPERS:

- TAPER I:** A modified log, left-hand taper in the carbon unit; semi-log in W.W. unit. For audio or ant. shunt circuits.
- TAPER II:** A right-hand log taper in the carbon unit; semi-log in the W.W. unit. For series circuits, such as cathode voltage controls.
- TAPER IV:** Linear taper. Used where the voltage changes proportionately to the degree of rotation.
- TAPER IV A:** Modification of regular linear taper IV above.
- TAPER VII:** A left hand taper found only in wire-wound controls. Useful in combined antenna and bias control circuits.

UNIVERSAL "TRP" TAPPED CONTROLS

Cat. No.	Mfr's. No.	Res. Ohms	Tapped at Ohms	Cat. No.	Mfr's. No.	Res. Ohms	Tapped at Ohms
B9200	TRP600	6M	2500	B9213	TRP613	2 Meg.	450M
B9201	TRP601	30M	6M	B9214	TRP614	350M	75M
B9202	TRP602	63M	3M	B9215	TRP615	3 Meg.	1 Meg.
B9203	TRP603	250M	125M	B9216	TRP616	500M	50M
B9204	TRP604	350M	25M	B9217	TRP617	60M	10M
B9205	TRP605	350M	75M	B9218	TRP618	2 Meg.	200M
B9206	TRP606	500M	100M	B9219	TRP619	500M	100-300M
B9207	TRP607	500M	250M	B9220	TRP620	2 Meg.	1 Meg.
B9208	TRP608	1 Meg.	200M	B9221	*TRP621	2½ Meg.	250-500M
B9209	TRP609	1 Meg.	500M	B9222	TRP622	44M	7-14M
B9210	TRP610	1 Meg.	20M	B9223	TRP623	250M	50M
B9211	TRP611	1 Meg.	170M	B9224	TRP624	2½ Meg.	250-500M
B9212	TRP612	1 Meg.	25M				

*No provision for switch; if switch is desired use TRP 624. All "Universal" "TRP" tapped controls have taper I.
Average shpg. wt. per unit, 5 oz.
NET EACH (less switches) 88c

MALLORY-YAXLEY ENCYCLOPEDIA THIRD EDITION

Your volume control worries are over when you use the Mallory-Yaxley Encyclopedia. And this new Third Edition is packed full of information you need for all servicing work. 200 pages of receiver listings cover thousands of models; include tube complements, volume control, vibrator and condenser requirements, helpful service notes, etc. 256 pages. 8½ x 11". Shpg. wt., 2 lbs.
B11869. NET EACH.....75c

MIDGET "MR" CONTROLS—FIXED SHAFTS

A new series of midget replacement volume controls for use where special shafts and couplings are unnecessary. Efficiently built, compact. Switch cover and cam accommodate attachable switches wherever required. ½" deep, 1¼" dia.; 3" shaft. Shpg. wt., 5 oz.

Ohms	Type	Taper	Ohms	Type	Taper	Ohms	Type	Taper
5000	MR14	IV-A	50000	MR33	I	250000	MR44	I
10000	MR18	I	50000	MR34	II	250000	MR46	II
10000	MR19	II	50000	MR35	IV	500000	MR48	I
10000	MR20	IV	75000	MR36	I	500000	MR50	IV
15000	MR21	I	75000	MR37	II	750000	MR51	I
15000	MR22	II	100000	MR39	I	1 Meg.	MR53	I
20000	MR24	I	100000	MR40	II	2 Meg.	MR55	I
25000	MR28	II	100000	MR41	I	3 Meg.	MR56	I
25000	MR29	IV	150000	MR42	I		MR57	I

B9264. Specify Type Number and Value When Ordering. 59c
List, \$1.00. NET EACH.....

MIDGET SWITCHES FOR "MR" CONTROLS
B9240. Type M26. Single Pole Single Throw. NET.....29c
B9241. Type M27. Double Pole Single Throw. NET.....35c
B9242. Type M28. Single Pole Double Throw. NET.....35c

SPECIAL SINGLE "SRP" CONTROLS

These controls have special mechanical or electrical features for receiver requirements which cannot be met with universal type controls. Consult Mallory-Yaxley Encyclopedia for correct selection. All units sturdily constructed for long life. Shpg. wt., 5 oz.

Mfr's. Type	Resis. Ohms	Mfr's. Type	Resis. Ohms	Mfr's. Type	Resis. Ohms
*SRP133	2M	*SRP251	250M	*SRP275	500M
*SRP134	450M	*SRP252	500M	*SRP276	3M
*SRP138	450	*SRP253	400	*SRP277	2M
*SRP139	550	*SRP254	3500	*SRP278	500M
*SRP141	1200	*SRP255	15M	*SRP279	50M
*SRP142	2900	*SRP256	10M	*SRP281	500M
*SRP144	2M	*SRP257	3M	*SRP282	50M
*SRP145	25M	*SRP258	15M	*SRP283	250M
*SRP150	50M	*SRP259	50M	*SRP284	100M
*SRP152	60	*SRP260	1M	*SRP285	500M
*SRP153	13M	*SRP261	100M	*SRP286	250M
*SRP154	50M	*SRP262	1500	*SRP287	5M
*SRP160	3200	*SRP263	32M	*SRP288	100M
*SRP170	75M	*SRP264	650	*SRP289	1M
*SRP179	125M	*SRP265	200	*SRP290	1M
*SRP188	32M	*SRP266	600	*SRP291	750M
*SRP213	250M	*SRP267	8M	*SRP292	20M
*SRP216	500M	*SRP268	15	*SRP293	10M
*SRP223	1M	*SRP269	10M	*SRP294	80M
*SRP245	32M	*SRP271	150	*SRP295	10M
*SRP249	20M	*SRP272	300	*SRP296	250M
		*SRP274	10M		

B9230. Specify Type Number and Value When Ordering. 88c
Less switch. Use standard switches at left. NET EACH.....

B9226 SRP239. 450 Ohms. Vol. Strip }
B9227 SRP241. 6000 Ohms. Vol. Strip } EACH.....29c
B9228 SRP273. 500.000 Vol. Control with Switch. NET \$1.10
B9229 SRP280. 500.000 Vol. Control with Switch. NET \$1.10

*Volume Control. †Phono Control. ‡Vol.-Sens. Control
**Hm Control. ††Tone-Beam Control. *†Phono-Vol. Control
†Volume-Tone. ††Regeneration Control. **†Equalizer Control

SPECIAL DUAL "DRP" CONTROLS

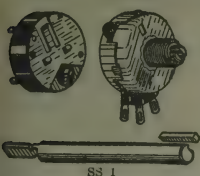
Consist of two separate resistance elements ganged and controlled on one shaft. These dual units will service practically all sets employing t type of control. Consult your Mallory Encyclopedia for control type require and then order from this listing. Average shpg. wt., 8 oz.

Type	Resistance Front	Resistance Rear	Type	Resistance Front	Resistance Rear	Type	Resistance Front	Resistance Rear
DRP114	250	5M	DRP241	5M	150M	DRP306	See below	
DRP115	3800	3800	DRP242	10M	500M	DRP307	3M	12M
DRP116	25700	10000	DRP243	3M	750M	DRP308	50M	50M
DRP117	500	2500	DRP244	25M	6M	DRP309	12M	60M
DRP119	3M	10M	DRP245	1 Meg.	3 Meg.	DRP310	25M	250M
DRP122	645	10M	DRP246	32M	50M	DRP311	150M	250M
DRP169	7500	10M	DRP250	50M	1M	DRP312	75M	50M
DRP221	10M	100M	DRP301	5M	2500	DRP313	1M	50M
DRP222	75M	32M	DRP302	100M	250M	DRP314	500M	25M
DRP232	3 Meg.	3 Meg.	DRP303	2500	100M	DRP315	2 Meg.	25M
DRP239	25M	25M	DRP304	1 Meg.	3 Meg.	DRP316	200M	50M
DRP240	250M	10M	DRP305	25M	25M	DRP317	500M	50M
						DRP318	250M	3M

DRP311 is tapped at 160M ohms.
B9231. Specify Type and Value. Less switch. Use standard switches at left. NET.....\$1.40
B9225. DRP306. Front 5M, Rear 10M; with switch. NET.....\$1.40

MALLORY-YAXLEY VOLUME CONTROLS

TYPE UM UNIVERSAL MIDGETS



These new midget controls, together with Plug-In Shafts below, offer a great advance in volume control servicing. Consult the M-Y Encyclopedia (see page 207) for proper selection and taper. 1 1/8" dia., 1/2" W. See page 112 for

attachable switches. **NOTE:** We can select for your proper controls and shafts for most sets. Send name, model number, and tube lineup of receiver, and 88c for each unit (less switch) ordered. Wt., 6 oz.

Ohms	Type	Taper	Ohms	Type	Taper
5M	UM114	4-A	100M	UM143*	1
10M	UM118	1	150M	UM144	1
10M	UM119	2	250M	UM147	1
10M	UM120	4	250M	UM149	4
15M	UM121	1	250M	UM150*	1
15M	UM122	2	350M	UM151	1
20M	UM124	1	500M	UM154	1
25M	UM128	2	500M	UM156	4
25M	UM129	4	500M	UM157*	1
50M	UM133	1	750M	UM158	1
50M	UM134	2	1 Meg.	UM160	2
50M	UM135	4	1 Meg.	UM161	1
75M	UM137	1	1 Meg.	UM162*	1
75M	UM138	2	2 Meg.	UM163	1
100M	UM140	1	3 Meg.	UM165	1
100M	UM141	2	100M	UM180*	Spec.
100M	UM142	4	2 Meg.	UM181*	Spec.

* Clutch type controls—no provision for attachable switch. † Right hand switch action. **B13945. Less shaft.** Specify values and type numbers when ordering. See page 112 for midget switch. **NET.....73c.**

TYPE TM TAPPED MIDGETS

Similar to UM type above but have tone control tap. Be sure to specify SS type Plug-In Shaft when ordering. Shpg. wt., 6 oz.

Ohms	Type	Taper	Ohms	Type	Taper
5M	TM219*	5	2 Meg.	TM243	5
250M	TM220	5	2 Meg.	TM245	6
250M	TM221	5	2 Meg.	TM246	5
250M	TM222*	5	2 Meg.	TM247	5
350M	TM225	5	2 Meg.	TM248	5
500M	TM228	6	2 Meg.	TM249	5
500M	TM229*	5	2 Meg.	TM251	5
500M	TM230	5	2 Meg.	TM252*	5
500M	TM231	5	2 Meg.	TM253	Spec.
500M	TM232*	5	3 Meg.	TM257	4
1 Meg.	TM240	5	2 Meg.	TM258	4
1 Meg.	TM241*	5	3 Meg.	TM259	4
1 Meg.	TM242*	5			

* Clutch type. No provision for switch. **B13946. Less shaft.** Specify values and type numbers when ordering. See page 112 for midget switch. **NET.....73c.**

TYPE SS PLUG-IN SHAFTS

Plug-in shafts for use with above UM and TM controls. Every possible shaft requirement is filled by this versatile line. Included are knurled, split, and special shafts for home and auto radios. Shaft lengths available from 1/4" to 8 1/2" long. When ordering specify M-Y type number. Ask for **B11867 FREE M-Y catalog.** Shpg. wt., 4 oz.

Type	Type	Type	Type	Type
SS-1	SS-6	SS-11	SS-16	SS-21
SS-2	SS-7	SS-12	SS-17	SS-22
SS-3	SS-8	SS-13	SS-18	SS-23
SS-4	SS-9	SS-14	SS-19	SS-24
SS-5	SS-10	SS-15	SS-20	SS-25

B13970. Specify Type Number. **NET EACH.....15c.**

STANDARD DUAL CONTROLS

*Wire-wound, others are carbon units. See page 112 for standard attachable snap-on switches. Shpg. wt., 1 lb.

B13944. Specify No. EACH....\$1.47

Mfr's No.	Ohms Front	Ohms Rear	USE
CE	2M	5M	Ant. Shunt & Bias
GE	10M	5M	Ant. Bias or Screen
GG	10M	10M	Ant. Bias or Screen
GK	10M	50M	Ant. Bias or Screen
KK	50M	50M	Grid and Cathode
LL	100M	100M	Aud. in P. P.
LM	100M	250M	Aud., Tone, Screen
MM	250M	250M	Aud. in P. P.
MN	250M	500M	Audio and Tone
NN	500M	500M	Aud. in P. P.

TYPE M POTENTIOMETERS

The wire-wound Mallory-Yaxley Type M Rheostats and Potentiometers listed below are designed for use where a high wattage control is required for a limited space. Conservatively rated at 4 watts. Contact arm insulated. Case 1 1/4" diameter, 3/4" deep. Shaft 1/2" dia., extends 3/4" from bushing. Mount in 7/8" hole. Shpg. wt., 8 oz.



Ohms	Type	No.	NET EACH
15	M15P	B13050	
20	M20P	B13051	
25	M25P	B13052	
30	M30P	B13053	
40	M40P	B13054	
50	M50P	B13073	
60	M60P	B13055	
75	M75P	B13056	
100	M100P	B13057	
200	M200P	B13058	
400	M400P	B13059	
500	M500P	B13060	
600	M600P	B13061	
1M	M1MP	B13062	
2M	M2MP	B13063	
3M	M3MP	B13064	
4M	M4MP	B13065	
5M	M5MP	B13066	
10M	M10MP	B13067	
15M	M15MP	B13068	
20M	M20MP	B13069	
25M	M25MP	B13070	
50M	M50MP	B13071	
70M	M70MP	B13072	

TYPE M RHEOSTATS

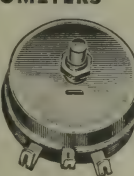
Ohms	Type	Amps.	Ohms	Type	Amps.
1/2	M05R	2.80	20	M20R	.45
2	M1R	2.00	25	M25R	.40
3	M2R	1.4	30	M30R	.37
4	M3R	1.15	40	M40R	.32
6	M4R	1.00	50	M50R	.28
10	M6R	.82	60	M60R	.26
15	M10R	.63	75	M75R	.23
	M15R	.52	100	M100R	.20

B13947. Specify values when ordering. Shpg. wt., 6 oz. **NET EACH.....44c.**

TYPE E POTENTIOMETERS

RATED 9 WATTS

Heavy-duty, wire-wound potentiometers. Conservatively rated at 9 watts. Recommended for experimental work and test equipment. Can be mounted on panels up to 1/2" thick. Shaft extends 3/4" in front of panel. Overall diameter is 2 3/8". Supplied with hex. mounting nut. Wt., 10 oz.



No.	Type	Ohms	Amps	EACH
B13990	ESMP	5000	.042	
B13991	E10MP	10000	.03	
B13992	E20MP	20000	.021	
B13993	E25MP	25000	.019	
B13994	E50MP	50000	.0135	
B13995	E75MP	75000	.011	
B13996	E100MP	100000	.0095	
B13997	E125MP	125000	.0085	
B13998	E150MP	150000	.0078	

B13999. Dial Plate. 0-10. NET.....15c

VOL. CONTROL ACCESSORIES

Valuable accessories to improve volume control replacement service. Threaded hole in wrench recuts marred or damaged threads on volume control. Wrench fits all standard hex. nuts.

B13940. Type RS242. Universal Extension Shaft. Aluminum; can be cut to length. 4" long. 1/4" dia., 1/4" flat. One end fits 1/4" shaft. **NET.....18c.**

B13941. Type UB241. Universal Bushing and Nut. Accommodates 1/4" shaft. Permits mounting control back of panel. **NET.....5c.**

B13942. Volume Control Wrench. Easy to handle. Prevents marring panels. **NET.....12c.**

CENTRALAB CONTROLS

NEW! NOTCHED ROUND SHAFT CONTROLS

These controls are identical with the standard Radiohms on next page but have 2 1/4" shaft. Grooved every 1/2". Easy to cut shaft to required length. See page 114 for curve chart. Less Switch. Wt., 6 oz.



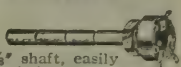
No.	Type	Ohms	Curve	EACH
B2005	AS-139	10000	1	
B2006	AS-140	25000	1	
B2007	AS-141	50000	1	
B2008	AS-142	100000	1	
B2009	AS-143	100000	6	
B2010	AS-144	250000	1	
B2011	AS-145	150000	1	
B2012	AS-146	500000	1	
B2013	AS-147	500000	6	
B2014	AS-148	1 Meg.	6	
B2015	AS-149	5 Meg.	6	
B2016	AS-150	10 Meg.	6	

SWITCH COVERS

Off-On switches mounted on a metal cover. Snaps on back of above controls. Easy to attach. Underwriters' approved. Shpg. wt., 3 oz. **B2125. SPST Standard.....29c**
B2127. DPDT 4 lugs.....35c

SUBMIDGET STANDARD RADIOHM CONTROLS

Tiny controls for hearing aids, small portables, etc. Case dia., 3/4". Grooved 2 1/4" shaft, easily cut as needed. See page 114 for curve chart. Not available with switch. Wt., 4 oz.



No.	Type	Ohms	Curve	EACH
B2020	NS-10	1000	1	
B2021	NS-11	5000	1	
B2022	NS-12	10000	1	
B2023	NS-13	25000	1	
B2024	NS-14	50000	1	
B2025	NS-15	100000	6	
B2026	NS-16	250000	6	
B2027	NS-19	500000	1	
B2028	NS-17	500000	6	
B2029	NS-18	1 Meg.	6	

UNIVERSAL AUTO CONTROLS



All units curve No. 10. All have slip clutches and tone compensation tap. DPST switch on type "PA." 1/4" slotted shaft 3" long, easily cut to size. With guide funnel. Wt., 8 oz.

Ohms	Type	"NA" Type No Sw.	"PA" Type With Sw.
250000	123	B2043	B2047
500000	105	B2044	B2048
1 Meg.	124	B2045	B2049
2 Meg.	125	B2046	B2050

POWER RHEOSTATS

Very rugged, ideal for many commercial uses such as motor speed control, charging rate regulator, etc. Design permits maximum heat dissipation. Frame and core insulated with treated asbestos. Shpg. wt., 1 lb.



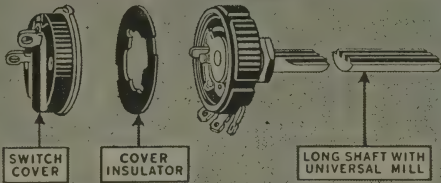
No.	Ohms	No.	Ohms
B3000	2	B3005	400
B3001	6	B3006	1000
B3002	15	B3007	5000
B3003	50		
B3004	150		

NET EACH.....\$1.18

No.	Ohms	No.	Ohms
B3010	25	B3017	50
B3011	60	B3018	150
B3012	150	B3019	300
B3013	500	B3020	500
B3014	1000	B3021	1000
B3015	5000		

NET EACH \$1.47

CENTRALAB STANDARD RADIOHM



Less Switch No.	CRL No.	Max. Res. Ohms	Taper No.	With Switch No.	CRL No.
B3025	72-118	500	1	B3060	62-118
B3026	72-107	1000	1	B3061	62-107
B3027	72-101	2000	1	B3062	62-101
B3028	72-108	3000	1	B3063	62-108
B3029	72-109	4000	1	B3064	62-109
B3030	72-110	5000	1	B3065	62-110
B3031	70-204	5000	6	B3066	52-204
B3024	72-139	7500	1	B3075	62-139
B3032	72-114	10000	1	B3067	62-114
B3033	72-113	10000	3	B3068	62-113
B3034	70-205	10000	4	B3069	52-205
B3035	72-100	10000	6	B3070	62-100
B3036	72-115	15000	3	B3071	62-115
B3037	79-006	15000	4	B3072	99-006
B3038	72-119	20000	3	B3073	62-119
B3039	72-131	25000	1	B3074	62-131
B3041	70-206	25000	4	B3076	52-206

LESS SWITCH. EACH. **59¢** WITH SWITCH. EACH. **88¢**

TAPPED RADIOHMS

Standard units with taps for tone compensation. Taper No. 10. See explanation below.

B3059	72-138	250000	10	B3098	62-138
B3057	72-134	500000	10	B3092	62-134
B3058	72-135	1 Meg.	10	B3093	62-135
B3016	72-142	2 Meg.	10	B3009	62-142

LESS SWITCH. NET EACH. **88¢** WITH SWITCH. NET EACH. **\$1.18**

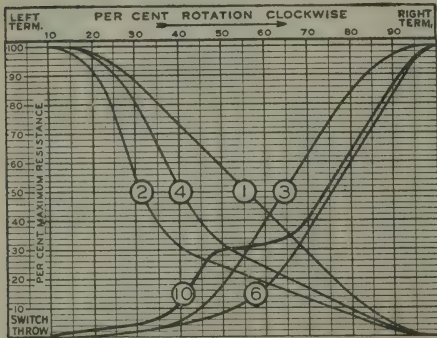
WIRE-WOUND RADIOHMS

Similar to above in design and size, but of wire-wound construction. These units have linear taper and are supplied less switch (see right above for Radiohm snap-on switch).

CRL No.	Res. Ohms	CRL No.	Res. Ohms	CRL No.	Res. Ohms
V100	2	V114	40	V128	750
V102	4	V116	50	V129	1000
V104	6	V117	60	V131	2000
V106	8	V118	75	V133	3000
V108	10	V121	100	V134	4000
V109	15	V123	200	V135	5000
V110	20	V125	300	V136	7500
V111	25	V126	400	V137	10000
V112	30	V127	500		

B2004. Specify Type Number and Value when ordering the above controls. List, \$1.00. NET EACH. **59¢**

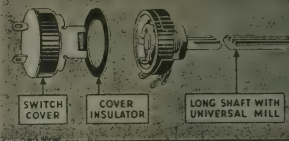
STANDARD CENTRALAB RESISTANCE TAPER CURVE CHART



The taper curves illustrated on the left will help you select the proper Centralab Volume Control for use in any type of radio circuit. The numbers shown on each curve correspond to the curve numbers given in the Standard and Midget listings above. Standard applications of each curve are as follows: (1) Voltage divider with uniform resistance change, (Pot.). (2) "C" bias rheostat (L.H.). (3) Antenna and "C" bias of one tube (R.H.). (4) Antenna and "C" bias of two tubes (L.H.). (5) Audio grid, antenna shunt, or tone control (R.H.). (10) Audio grid volume control with tone compensation tap. Minimum volume at the left and maximum volume at the right. Scale at left indicates percentage of resistance change. Scale at top indicates percentage of clockwise rotation. Refer to this chart when ordering volume controls or ask us for the control you need.

Centralab Radiohms are the famous patented CRL Standard Controls used by Servicemen everywhere. The complete listing below covers practically all volume control requirements. The size of these controls is only 1 1/4" diameter, 3/8" deep, less switch. Each control has a 3/8"x1/4" shaft which may easily be cut to fit. All units below are carbon type. See chart below for taper. Supplied with or without "snap-on" switch No. B2125 described below. Average shpg. wt., less switch, 5 oz.; with switch, 7 oz.

STANDARD MIDGET RADIOHM



Bakelite case, 1 1/4" dia. Aluminum shaft is 1/4" dia. x 3/8" long. For use with push-on or set-screw type knob. Ground lug supplied. High-quality all-purpose controls. Wt., 4 oz.

Less Switch No.	CRL No.	Max. Res. Ohms	Taper No.	With Switch No.	CRL No.
B3286	NF106	5000	1	B3298	PF106
B3287	NF107	10000	1	B2725	PF107
B3288	NF100	10000	3	B3293	PF100
B3256	NF108	10000	4	B2726	PF108
B3257	NF109	10000	6	B2727	PF109
B3287	NF110	15000	3	B3299	PF110
B3258	NF111	15000	4	B2728	PF111
B3259	NF112	20000	3	B2729	PF112
B3261	NF113	25000	1	B2730	PF113
B3289	NF101	25000	3	B3294	PF101
B3266	N114	50000	1	B2731	PF114
B3267	N115	50000	6	B2732	PF115
B3268	N116	100000	1	B2733	PF116
B3269	N117	100000	6	B2734	PF117
B3290	N102	250000	6	B3295	PF102
B3253	N118	500000	1	B2735	PF118
B3291	N103	500000	6	B3296	PF103
B3292	N104	1 Meg.	6	B3297	PF104

LESS SWITCH. NET EACH. **59¢** WITH SWITCH. NET EACH. **88¢**

TAPPED MIDGET RADIOHMS

B2031	NT119	250000	10	B2035	PT119
B2032	NT120	500000	10	B2036	PT120
B2033	NT121	1 Meg.	10	B2037	PT121
B2034	NT122	2 Meg.	10	B2038	PT122

LESS SWITCH. NET EACH. **88¢** WITH SWITCH. NET EACH. **\$1.18**

MIDGET SWITCH COVERS

Underwriters' approved Bakelite midget switch cover. *For use with battery radio circuits. Snap-on type for easy attachment. Wt., 3 oz.

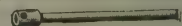
No.	Type	NET
B2131.	S.P.S.T. (Standard)	29¢
B2132.	S.P.D.T.	35¢
B2133.	D.P.S.T.	35¢
B2134.	S.P.S.T. (Dummy Lug)	35¢
B2135.*	4 Point	35¢

UNIVERSAL SPLIT-KNURL SHAFT CONTROLS

Newly developed replacement volume controls for late model radio receivers employing brass knurled shaft used with special push-on knob. These new replacements offer facilities for speedy but exact duplication of originals. Fixed shaft controls in four popular resistance values. Will take care of practically all volume control servicing needs. Split shafts provide tension for push-on knob. Put in a supply of these new controls now to keep up with new volume control replacement requirements. Many 1938-39 and A radio sets use split-knurled shafts. Shaft length 3 3/8" long, may be easily cut to desired size. For switch type, add midget switch cover listed above. Shpg. wt., 6 oz.

Cat. No.	CRL No.	Res. Ohms	Type	NET EACH
B2140	NK-139	250000	Plain	
B2141	NK-140	500000	Plain	59¢
B2142	NK-141	1 Meg.	Plain	
B2143	NK-142	2 Meg.	Plain	
B2144	NK-143	500000	Tapped	88¢
B2145	NK-144	1 Meg.	Tapped	

EXTENSION SHAFTS



For use with Centralab Volume Controls or switches where longer shaft is needed. Keep stock of all sizes handy for emergencies. A shafts are 4" long. Easily cut off to require length. Shpg. wt. 6 oz.

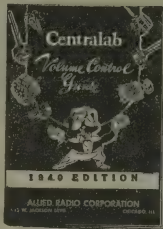
No.	Size	EACH
B2722.	4x1/2x3/4" flat	
B2723.	4x1/2x3/4" flat	
B2724.	4x3/4x3/4" flat	18¢

MAKE ALLIED YOUR CENTRALAB HEADQUARTERS—COMPLETE STOCKS

NEW CENTRALAB CONTROL GUIDE

Centralab Volume Controls have important features of design not available in controls of any other make. This has been accomplished through the accumulated knowledge gained by specializing exclusively in variable resistors since the early days of commercial radio. It is your guarantee that Centralab Volume Controls offer you the very finest in noise-free, long-lived operation. The brand new 112-page 1940 CRL Volume Control Guide listed below covers thousands upon thousands of sets, both new and old. The proper CRL Volume Control, and other important data, is given for each model receiver. This valuable Guide is offered free with an order for Centralab Volume Controls. Ask for a copy with your next order. You'll find it a time-saving data-book.

B3099. CRL Volume Control Guide. Free on Request.



ALLIED OFFERS A NEW SERVICE

The listings below, and also on the following pages, are practically all of the Centralab Special Exact Duplicate Volume Controls as shown in their new 1940 Guide, listed at left. These controls are exact duplicates mechanically and electrically of the original controls. It is not necessary to make any alterations in these units. Shafts are the correct length with the proper milling, lugs are positioned like the original, etc. If your set is not listed below, send us your defective control with a 50c deposit, mentioning the name and model number of the set, and the number and type of tubes used. We will make immediate shipment of the proper replacement control, COD for the balance. For correct and exceptionally prompt Volume Control Service on every order, make **ALLIED RADIO** your headquarters.

Manufacturer & Model	No.	NET	Manufacturer & Model	No.	NET	Manufacturer & Model	No.	NET
Arvin (Noblitt Sparks)			General Electric (Cont'd.)			Majestic (Cont'd.)		
7, 17, 27, 37	B3103	\$1.18	M50, M51, M51A, M52, M55, M56, C60, M62, M65S	B3203	\$1.18	77, 290, 291, 293, 300, 303, 304, 307, 310, 311, 314, 315, 320	B3237	\$0.88
7A, 9A, 18, 19, 20A, 28, 29, 33, 39	B3104	.88	G53, G56, G64, G65, G75, G85S	B3341	1.18	321, 330, 331, 336 (Volume)	B3624	1.18
15, 16, 25, 35, 45	B3111	1.18	K60, K60P, K63, M63, K65, K65P, C67, K78, K79	B3201	.88	320, 321, 330, 336 (Tone)	B3135	.88
Atwater Kent			N60	B3245	1.18	90, 90B, 91, 92, 93 (Vol.)	B3134	.88
37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 52, 53, 56, 57	B3106	.88	E61, E62, E68, E71, E72, E76, E81, E86, E91, E95, E101, E105, E106	B3145	1.18	101, 102, 103, 180, 100B, 100, 101 (Comb.)	B3312	1.47
55, 55C, 55F, 55FC, 60, 60C (Late); 66	B3101	1.76	G61, G66, G68, G69, G78, G86	B3343	.88	100B, 102, 103	B3133	1.47
55, 55C, 55F, 55FC, 60, 60C (Early); 61, 61DC	B3102	1.76	M61, M66, M67, M69, M81, M85, M86, M89	B3202	.88	120, 121	B3141	1.47
60, 60C (3rd Type); 70, 70L, 74D, 74L, 76D, 87D (F Chassis)	B3105	1.76	K62, KZ62P, J80, K82, J85, S132, JZ83S	B3202	.88	118 Ford Car Radio	B3233	.88
70, 76 (Q Chassis)	B3108	1.47	F63, F65, F66, F70, F74, F75, F77, F81, F86	B3219	.88	130, 130A, 131, 132	B3138	.88
72 (H Chassis)	B3107	1.47	A64, K64, K64D, M65, K66, K66M, A67, M68, A70, A75, K80, K80X, K85, K88, K88X	B3308	.88	140	B3333	1.47
80, 80F, 83, 83F, 90, 90F	B3122	1.18	A82, A86, A87	B3206	.88	155, 160 (Phono)	B3625	.88
Belmont Radio			A83, A85, E113	B3126	1.47	180, 181 (Comb.)	B3332	1.47
404	B3110	.88	G85, G99	B3347	.88	200, 201, 203, 205	B3235	.88
680, 880	B3121	1.18	G95	B3348	.88	210, 211, 214, 215	B3143	1.47
1070, 1170B, 1173, 1174, 1175, 879 (Tone)	B3127	1.18	F96, F107, F135	B3349	.88	220, 221, 223	B3236	.88
	B3129	1.18	G105, G106	B3610	.88	230A, 233 (Comb.)	B3626	1.47
Bosch			K105, K106, K106P, K107, K126, M128, M128R, M129, M106, M107	B3611	.88	290, 291, 293, 294, 310A, 310B, 311, 314, 315 (Tone)	B3627	1.18
28, 29 (Pulley Type)	B3116	.88	FE112, FE116	B3612	1.18	370, 344, 360, 363, 390, 393, 370, 371, 373	B3628	.88
48, 49 (Early)	B3143	1.47	A125	B3613	.88	380, 381, 373	B3239	1.18
48, 49 (Late)	B3301	1.47	J125	B3614	.88	400, 411, 411A, 413, 413A	B3239	1.18
48, 49 (Late)	B3300	.88	J125A	B3615	1.47	440	B3241	1.18
48, 62	B3300	.88	M125	B3616	1.47	460	B3242	.88
536 (Plain Type Control); 636, 637	B3149	.88	E126, E129	B3220	.88	490	B3315	.88
736, 737, 738, 838	B3160	.88	E155	B3207	.88	500	B3630	1.18
Crosley Radio			General Motors	B3617	1.18	800	B3631	.88
27, 28, 30, 31, 32, 33, 34; 40S 41S, 42S (3rd Type); 82S, 815	B3115	.88	R1A, 281 Converters	B3618	1.18	Montgomery-Ward (Airline)		
40S, 41S, 42S, 71A, 82S (1st Type)	B3114	1.47	S4A, S4B; 292, 293 Chassis	B3619	1.47	5 Tube, 123	B3632	1.47
40S, 41S, 42S, 71A, 82S (2nd Type)	B3109	1.47	18, 110, 120, 130, 140, 150, 180, 190 Chassis; Little General	B3620	1.18	O7A, 62-103, 62-105	B3248	.88
41A, 42, 602, 608, 609, 610, 704, 755, 706	B3113	.88	120, 130, 140, 150 above No. 62100 Chassis A, and No. 1964 Chassis B	B3216	1.47	AE10	B3147	1.47
75, 76DC, 77	B3100	.88	120, 130, 140, 150 Chassis A and B	B3309	1.47	62-77, 62-120, 62-122, 62-126, 62-128, 62-149, 62-160, 62-162, 77	B3249	.88
124, 125	B3215	1.18	120, 130, 140, 150 Chassis; 160, 1001, A, B (Tone)	B3621	1.47	62-103, 62-105	B3633	1.18
128	B3304	1.18	160, 1001	B3622	.88	62-118	B3247	1.18
143-1	B3303	1.18	Grunow	B3130	1.47	62-166, 62-202	B3245	1.18
526, 626, 656, 916, 955	B3229	1.47	5G, 6G, 6J (Chassis); 580, 581, 640, 641, 680, 681	B3622	.88	62-169, 62-171	B3110	.88
555, 666, 555S, 5666	B3128	1.76	6A, 6C, 6F Chassis; 650, 651, 660, 661, 662	B3144	1.18	62-178, 62-181, 62-189, 62-211, 62-179, 62-194, 62-206, 62-216, 62-218	B3634	1.18
566	B3302	1.18	6HB, 7DB Chassis; 620, 621, 720, 721	B3146	1.18	62-185, 62-186, 62-187, 62-190, 62-197, 197	B3240	1.76
804	B3137	.88	7B, 75C Chassis; 750, 751, 752, 753	B3124	1.18	62-226, 62-227, 62-259, 62-261, 62-308, 62-311, 62-313, 62-314, 62-408, 62-411, 62-418	B3243	1.76
1216, 1316, 1336, 1516	B3198	1.47	8A, 9A Chassis; 801, 901-2, 11C, 12A Chassis; 1171, 1241	B3130	1.47	62-312, 62-314 (Tone)	B3244	1.76
Earl Radio			Kennedy			SD, 10, AC206	B3635	1.18
21, 22	B3210	1.47	10 (1929); 12SG, 20, 22	B3152	1.47	SD, 10, AC206	B3636	1.18
31-32, 33, 31S, 371	B3211	1.47	Knight (Allied Radio Corp.)			SD, 10, AC206	B3637	1.18
271	B3157	1.47	SG9	B3154	1.76	93WGS62	B3638	1.18
Edison-Splitdorf			SG10	B3155	1.18	811, 811X, 1111, 1111X	B3640	.88
C1, R1, C2, R2, SRC3, M5-6 (Rear)	B3117	.88	Kolster			2955	B3246	1.47
C1, R1, C2, R2, SRC3, M5-6 (Front); PAD4, E175	B3118	.88	K42, K43, K44, K45	B3157	1.47	Monarch	B3641	.88
C4, R4, R5, 8P	B3119	1.47	Majestic (Grigsby Grunow)			Motrola (Galvin)		
R6, R7	B3120	.88	15, 15B, 55, 56, 57, 58, 150 to 156	B3140	1.18	500, 100, 110	B3150	1.18
R12, Abbey Jr.	B3119	1.47	15, 55, 56, 57, 58, 150 (Tone)	B3623	.88	57, 62	B3151	1.18
Eveready			20, 21, 22, 23	B3234	1.18	60, 70, 75, 79, 80, Twin 6, Golden Voice (1936)	B3208	1.18
1, 2, 3	B3116	.88	25, 251, 253, 254 (Early)	B3139	1.18	Philco		
50 Series	B3159	1.47	25B, 35, 251B, 253B, 254B, 351, 333	B3226	1.18	C, D, H, HHD, NDD, PHD, 10, 800 (Cone 122); MT3, RT3, AC266, ST3, T3, 802	B3642	1.18
Fada			30, 31, 230A	B3140	1.18	C, DDS, D, E, MED, NCD, NDD, SCD (Cone 122); SDD, 10, AC206	B3319	1.18
10, 10Z, 11, 11Z, 30, 30Z, 31, 31Z	B3306	.88	50, 51, 52	B3623	.88	C1423, F1440, F1440X, F1442, F1442X, FT9, G1418, G1436, L1420, L1425, L1460, L1427, L1429, L1460, LT14X3, N1418, N1433X, N1434H, N1514, NT15, NT12X, P1417, P1517, R1415, RT14X, S1416, S1436, S1437, S1516, ST12, ST15, T9, T12, T15, WT149, 811PA, 811PB, 811PV, 816, 817, 821P, 821PV, 826, 827, 827K, 828, 828K	B3187	.88
15M, 15MZ, 25, 25Z	B3305	.88	60, 61, 62, 160, 163	B3142	.88			
16, 17, 18DC, 32	B3326	.88	66 Car Radio	B3232	1.18			
35, 35Z, 75, 77	B3327	.88	70, 70B, 71, 72	B3131	.88			
35B, 35C, 40AC	B3307	1.47						
35B (Wire Wound)	B3331	1.47						
43, 76Z, KF, KG	B3333	1.47						
General Electric								
B1, B2	B3172	.88						
T41	B3125	1.47						
D50, D51, D52, D72	B3209	1.18						

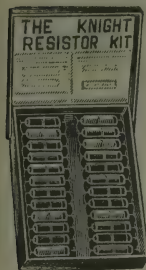
SEE NEXT PAGE FOR ADDITIONAL LISTINGS OF EXACT DUPLICATE CONTROLS

ALLIED RADIO CORPORATION, 833 W. JACKSON BLVD., CHICAGO, ILL.

Manufacturer & Model	No.	NET	Manufacturer & Model	No.	NET	Manufacturer & Model	No.	NET
Philco (Cont'd.)			Philco (Cont'd.)			Temple		
C1450, C1452, C1540, CT10,			640, 641, 642, 645, 651.....	B3186	\$1.18	5-55, 8-61, 8-81, 8-91.....	B3185	\$1.47
CT11, HT11, MT14X4,			643.....	B3667	1.18			
PT142H, PT130, PT1432,			680.....	B3668	.88	Transformer Corp.		
PT14, T10, T11.....	B3339	\$0.88	805 (Car Radio).....	B3231	.88	100, G120.....	B3112	1.18
C117.....	B3338	.88	808 (Car Radio).....	B3231	.88	300, 340.....	B3684	.88
C1608.....	B3643	1.18	809, 810 (Car Radios).....	B3324	.88	United Motors (Delco)		
CDG, CDGU, G, HGD.....	B3644	1.18	818, 819.....	B3670	.88	980534, 980535 (Buick).....	B2051	1.18
CGD, CGDU (Code 122);			926, 927, 928K, 936, 937, 938K	B3332	1.18	982044, 982045 (Olds); 983526,		
CT2, CTS, FN, FT6; G,			RCA-Victor			983527, 983569 (Pontiac);		
HT2, HGD (Code 122); N,			AVR-1, 9 Tube AW, 121, 122,			985254 (Chevrolet) above		
P, PT5, T2, T5, T6.....	B3225	1.18	127, 140, 141, 141E, 220,			Serial Number B16301.....	B2052	.88
CR52, DP, DPV, E, JHD,			221, 222, 240, 320, 321, 327,	B3206	.88			
HRD, J, NID, NOD; P, Q,			340, 340E.....	B3671	.88	Wells-Gardner		
R, SID, STD, 11, 700, 800,			5M.....			9-in-Line (Early), 1929.....	B3688	.88
AC236.....	B3230	1.18	5T, 5T-1, 5T-4, 5T-5, 5T-6,			A2.....	B3637	1.18
F1540 Ford Auto.....	B3337	1.18	5T-7, 5T-8, C6-2, C6-8, 6K,			2C, 2CM, OD, ODM Series.....	B3240	1.76
G1640.....	B3645	1.18	6T, 6T-2, 6T-5, 6K-2, 6K-3,			2DL Series (Volume).....	B3635	1.18
G1528, N1524, P1530.....	B3335	.88	6K-10, T6-1, T6-7, T6-8,			2DL, OEL Series (Tone).....	B3636	1.18
L1560, P1535.....	B3336	.88	7K, 7, 7U, 7X, 7T-1, 7T-4,			T4.....	B3687	.88
N17, NT8, STX, 17, T8,			7U-2, C7-2, D7-7, T3, 8K,			5G, 35G510, 35G560 Series,		
806.....	B3238	.88	8T, 8U, 8T-2, 8T-11, 8K-11,			D709 (1935); S709.....	B3634	1.18
P1421, 19 (Code 128).....	B3316	.88	8U-2, C8-15, C8-19, C8-20,			6F, R-F Series.....	B3244	1.76
P1426.....	B3646	.88	T8-14, T8-18, C9-4, D9-19,			06A 5E Series.....	B3249	.88
P1617.....	B3647	1.18	T9-10, 811-K.....	B3204	.88	6K Series; 6R, 6S.....	B3689	1.18
P1630.....	B3648	.88	T5-2, M107, 117, 118, 119,			6N Series; 6R, 6S.....	B3245	1.18
P1635.....	B3649	.88	125, 211, 214, 225.....	B3203	1.18	6U Auto Set.....	B3245	1.18
SI52.....	B3334	.88	H6 Hudson Auto.....	B3672	1.18	6Q Series.....	B3690	1.18
14 (Early), 15 (Late), 18 (Code			Hf6, Hf8, R98, U132, U134.....	B3340	.88	7G, 7GM, 7K, 37G508.....		
124), 91 (Late), 503.....	B3655	.88	6M, 6M2.....	B3673	.88	37G566 Series.....	B3243	1.76
14 (Late); 17, 18 (Code 121);	B3178	1.18	R8, R10, R11, R12, RE18,			O7A, 17A, WG24 (Tone).....	B3248	.88
49, 118, 507.....	B3321	.88	RE18A, RE19, R21, R023,			A12, A14, A20, A22, A24.....	B3691	.88
15 (Early), 32.....			RAE26.....	B3219	.88	17B Series.....	B3633	1.18
16 (Code 125-6-7); 17 (Code			9K, 9K2, 9T, 9K3, 9U, 9U2,			WG24 Series, 291, CG, C.....	B3147	1.47
121); 114 (Code 121); 116X,			10K-1, 11T, 7T-1, 7T-3,	B3205	.88	60, 63, 360.....	B3641	.88
116X (Code 122); 500, 501,	B3179	1.18	10K, C11, C11-3, D11-2,	B3173	1.18	80-8 Tube.....	B3246	1.47
650, 655, 660, 665.....	B3167	1.18	C13-2, 15U, 812K, 813K,	B3674	.88	O22, 122.....	B3692	.88
16, 97, 98, 144, 506.....	B3656	1.18	816K.....					
19 (Late); 89 (Code 123).....			9K1.....			Zenith		
20, 20A, 21, 41DC, 42DC, 70,			13K, 15K.....	B3125	1.47	Numbers Below Are Chassis		
70A, 77, 77A, 90 (2-45's),	B3162	1.47	R14, R15, RE17, Radiola 42,	B3207	.88	100, 1002, 1201.....	B3194	1.18
20A, 370, 470, 470A, 570.....	B3165	.88	Radiola 48.....	B3172	.88	1004, 1202, 5634, 5635, 5801.....	B3193	1.18
22L, 47DC, 71.....	B3657	.88	C15-3, C15-4, D22-1, 281.....	B3170	.88	1005, 1103.....	B2570	1.18
23X, 91.....	B3658	1.18	21, 22 Radiolas.....	B3171	1.47	1202, 1202A, 1601C, 1601P,		
25, 43.....	B3180	1.18	R32, RE45, R52, 145.....	B3201	1.47	5903.....	B3195	1.18
28, 29, 45, 245.....			R35, R39, RE57, RE73.....	B3675	.88	1206, 1502, 1503.....	B2571	.88
30, 96, 111, 111A, 112, 112A,	B3163	.88	R37, R37P, R38, R38P, 120,	B347	.88	1207.....	B2572	.88
211, 212, 296.....	B3320	1.47	124, 223, 330, 331.....	B3676	1.18	1501.....	B2573	1.18
34, 36 (Battery).....	B3169	.88	U50.....	B3677	1.76	1519.....	B2574	.44
37 (Battery).....	B3320	1.47	R51B, R53B.....	B3616	1.47	5419.....	B2575	1.18
37-9, 37-10, 37-11, 37-116,			T64.....	B3220	.88	5536.....	B2576	1.18
37-610, 37-611, 37-620,			M70.....	B3342	1.76	5601M Ford Car.....	B2577	1.18
37-623, 37-624; 37-640			R78 (Dual).....	B3612	1.18	5616, 5617, 5626.....	B2578	1.18
(Code 121-2); 37-641			R78 (Single); RAE84.....	B3678	1.18	5619, 5621, 5629.....	B3190	1.18
37-643; 37-650 (Code 121-2);			87K1, 87K2, 87T2, U106.....			5630, 5631.....	B3189	1.18
37-653; 37-660 (Code 121-2);			R90, R90P, 260, 261, 280, 380,	B3344	1.76	5632.....	B2579	1.18
37-665, 37-670; 37-675 (Code			381.....	B3679	1.76	5637, 5803.....	B2580	1.76
121-2); 37-2620, 37-2650			96BK6, 96BT6, 98K2, 98T2.....			5646.....	B2581	1.18
37-2670; 38-116 (Code 121,			96E, 96T, 96T1, 96T4, 96T5,			5657.....	B2582	1.18
125); 38-623, 38-624.....	B3181	.88	96T6, 97X.....			5659, 5660, 5661, 5662, 5672P,		
38-2630, 38-2650, 38-2670,			96E2, 96K5, 96K6, 97K2.....			5675.....	B2583	.44
37-34, 37-38, 37-60, 37-61,	B3213	.88	97T2, 97T7.....			5706.....	B2584	1.18
37-89, 37-690; 38-60, 38-89,			96K2, 96K, 96T2, 96T3, 97E,			5706.....	B2585	1.18
(Code 125).....			97E, 97K, 97K2, 97T, 97Y,	B3345	1.76	5714, 5807.....	B2586	1.18
37-84 (Code 122); 84, 84B,	B3182	1.18	98EY, 98K, 98X, U119.....	B3209	1.18	5721, 5725.....	B2587	1.76
267E.....	B3659	.88	U122E, U124, U125.....	B3346	.88	5804AT.....	B2588	1.18
37-116 (Expander).....	B3660	1.18	M101, M104, M108, M109.....	B3680	1.76	5902.....	B2590	1.18
37-600, 600.....	B3325	1.18	U107 (Phono).....			5903A, 5904.....		
37-602, 602.....	B3214	.88	U115, U121, U123, U127E.....					
38-8A, 81, 81A.....			128, 128E, ACR136, 143, 224,	B3202	.88	Zenith (Cont'd.)		
38, 38A (Battery).....			224E, M226, 242, 243, 322,	B3613	.88	Numbers Below Are Set		
38-1, 38-2, 38-3, 38-4, 38-5,			322E Duo, 341.....			Numbers.		
38-7, 38-8, 38-9, 38-23,			262, 263.....	B3158	1.76	6D360, 6D311, 6D326, 6D336,	B2581	1.18
39-30, 39-35, 39-80, 40-150,			Sears Roebuck			6D360.....	B2582	1.18
40-155, 40-180, 40-185,			1705.....	B3156	1.47	6D315.....	B2584	1.18
40-190.....	B3212	.88	1708, 1708A, 1709, 1715, 1721,			6J436, 6J463, 7J323, 7J368.....		
38-690 (Volume).....	B3328	1.47	1721N, 1722, 1722N, 1726N,	B3681	1.18	6M90S, 6M90D, 6M91S,	B2591	.88
38-690 (Tone).....	B3661	1.47	1732, 1732N.....			6M91D, 7M91S, 7M91D;	B2592	1.18
39-17, 39-18, 39-19.....	B3662	1.18	1869N, 1757, 5 Tube Auto			5631, 5706 Chassis (Toile).....	B2593	1.18
39-25.....	B3201	.88	(1935).....					
39-36, 39-40, 39-45.....	B3329	.88	Spartan			6M390.....		
39-36, 39-40, 39-45, 39-55,			69, 79A, 101, 109, 110AC, 301,	B3218	.88	6M490.....		
(Tone).....	B3663	.88	589, 591, 593, 930, 931.....			7S323, 7S342, 7S343, 7S363,		
39-55, 39-116.....	B3330	1.18	89A, 103, 111A, 564, 570, 574,	B3217	.88	7S366, 7S364, 8S359.....	B2586	1.18
44, 504.....	B3227	1.18	600, 610, 620, 737, 740, 870,	B3174	1.76	9S307, 9S324, 9S344, 9S367,	B2594	.88
45DC.....	B3318	1.47	410, 420, 430, 600, 750D.....			9S369.....		
48DC, 51, 51A, 52, 551.....	B3164	.88	Stewart Warner			12S345, 12S370, 12S371,		
50, 50A.....	B3317	1.47	R100, 935, Series 950AC.....	B3177	.88	15S308, 15S346, 15S372,		
53.....	B3664	1.18	102D (Battery).....	B3682	1.76	15S373, 15S479, 15S495.....	B2571	.88
57, 58, 59.....	B3168	1.18	126A; Chassis 1261 to 1269.....	B3683	.88	33, 33X, 34, 35, 35A, 342, 352,	B3249	.88
60, 66, 261, 264, 265, 505.....	B3222	1.18	900 Series.....	B3176	.88	352A, 362.....		
65.....	B3223	.88	Stromberg Carlson			50, 52, 53, 54, 57, 60, 61, 62,		
70, 70A (AVC); 90 (2-47's),			12, 14.....	B2670	.88	642, 672 (Single).....	B3192	1.18
270.....	B3200	.88	38, 39, 40, 41.....	B2671	1.76	50, 52, 53, 54, 57, 60, 61, 62, 64,		
70 Lazy X, 370.....	B3221	1.76	48, 49, 50, 51.....	B2672	1.47	67, 70, 71, 72, 73, 77, 602;		
80.....	B3224	.88	52, 54.....	B2673	1.47	612 (1929); 622, 712 (1930);	B3191	1.76
86, 87, 511.....	B3183	1.18	240, 245, 250, 255, 260, 350			722, 732, 772 (Dual).....		
89 (Late).....	B3161	.88	Series.....	B2674	.88	Zenith (Cont'd.)		
90 (1-47), 490.....	B3197	.88	635, 636 (Rear).....	B2675	.88	Noise Suppressor Control		
95.....	B3199	.88	635, 636 (Panel).....	B2676	.88	215, 216, 217, 225, 263, 470,		
200, 201, 509.....	B3166	.88	638 (Panel).....	B2677	.88	500, 501, 502, 503, 514, 515,		
611 (AC & DC).....	B3666	1.18	638 (Rear).....	B2678	.88	516, 600, 604, 606, 610, 616,		
620, 625, 630, 635, 2620.....	B3184	1.18	641, 642, 652, 654 (Rear).....	B2679	.88	618, 715, 755; Chassis 2037,	B2569	.88
623 (Battery).....	B3228	1.18	641, 642, 652, 654 (Panel).....	B2680	.88	2044, 2053.....		
			846, 848, (Rear).....	B2681	.88			
			846, 848, (Panel).....	B2682	.88			

KNIGHT Carbon Resistors

KNIGHT INSULATED CARBON RESISTOR KITS



24 Popular Values With Handy Carton

Highest quality Knight Insulated Carbon Resistors supplied with handy case and mounting strips. 24 commonly used values. Keep a kit on your workbench and another in your tool bag—you'll have the resistor you need when you want it. RMA color-coded. With free Color-Code Guide. Increase your efficiency and profits by having available a substantial stock of these quality resistors.

CONTAIN THE FOLLOWING VALUES:

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
200	1000	6000	20000	50000	250000
400	2000	10000	25000	60000	500000
500	3000	12500	30000	75000	1 Meg.
750	4000	15000	40000	100000	2 Meg.

1 WATT KIT

Consists of one each of the above Knight Insulated Resistors in 1 watt size. Wt., 1 1/2 lbs. **\$1.17** NET.

1/2 WATT KIT

Consists of one each of the above Knight Insulated Resistors in 1/2 watt size. Wt., 1 lb. **\$95c** NET.

1/4 WATT KIT

Handy assortment consisting of one each of the above Knight Carbon Insulated Resistors in 1/4 watt size. Wt., 3/4 lb. **\$75c** NET.

12 POPULAR VALUES WITH HANDY HOLDER

An asset in shop or on service calls. Each kit is an assortment of the 12 most popular values of Knight quality carbon insulated resistors. RMA color-coded. To be mounted on sturdy strip supplied. RMA Color-Code chart with each kit. A valuable and handy group of kits. Keep them on hand for all repair emergencies.

STANDARD VALUES

Ohms	Ohms	Ohms	Ohms
200	3000	20000	75000
400	4000	25000	100000
500	6000	30000	250000
750	10000	40000	500000
1000	12500	50000	1 Meg.
2000	15000	60000	2 Meg.

1 WATT KITS

B1585. Consists of one each of the above from 200 to 15,000 ohms. Wt., 10 oz.

B1586. Consists of one each of the above from 20,000 ohms to 2 meg. Wt., 10 oz. **\$56c** EITHER KIT.

1/2 WATT KITS

B1587. Consists of one each of the above from 200 to 15,000 ohms. Wt., 8 oz.

B1588. Consists of one each of the above from 20,000 ohms to 2 meg. Wt., 8 oz. **\$45c** EITHER KIT.



RMA COLOR-CODE GUIDE

A handy vest pocket resistor guide for every serviceman, builder, experimenter, etc. Formed from light-weight, attractive plastic material. Has three rotary discs. Quickly indicates value of any resistor color-coded according to R.M.A. standards, either old style with center dot, or new style with colored bands. The guide is marked for "Body," "End," and "Dot" colors. For resistors marked with bands, read from left disc to right in the same sequence that resistor is coded. Shpg. wt., 2 oz. **\$9c** **B1590.** NET.

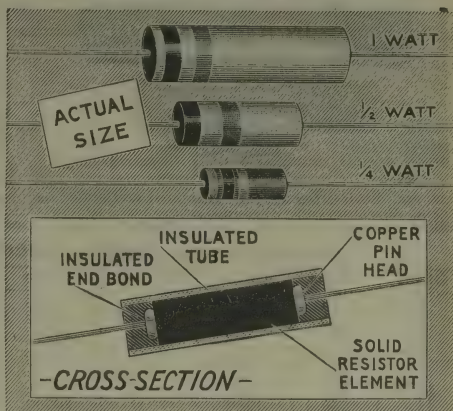
FREE with order for 24 resistors

KNIGHT INSULATED CARBON RESISTORS

HIGHEST QUALITY ASSURED ACCURACY

- Average Tolerance Close to 5%
- Always Quiet in Operation
- Completely Moisture-Proof
- Axial Leads—Reliable
- 1000 Volt Overall Insulation
- Maintain Permanent Value
- Non-Inductive—No Capacity

The finest carbon insulated resistors you can buy. Use these highest quality units with utmost confidence in any R.F., or Audio circuit or in high frequency Television or F.M. circuits. Knight Carbon Insulated Resistors are of solid molded construction with solid cross-section. Impervious to moisture; mechanically strong, non-inductive, quiet in operation. Each resistor is RMA color-coded. The tolerance of every Knight Carbon Insulated Resistor is held within 10% (average close to 5%). 1000 volt overall insulation permits resistors to touch without shorting. Save and profit by using Knight Quality Resistors.



The Certified Resistors with the 2-Year Guarantee

Solid carbon body is encased 100% in insulated tube. Breakdown voltage of insulation is 1000 volts. Resistors can be grouped together or placed against the chassis without danger of shorts. Carbon body is solid, not a thin film. Safely withstands normal overloads. Permanent values are maintained by ingenious internal connection of wire leads. The tinned copper leads contact the carbon body at a pin point, assuring negligible capacity. This careful construction eliminates molecular noise in circuits. Knight resistors are absolutely impervious to moisture, and extremes of climate.

Electrically and mechanically, Knight resistors are the best that can be made and are guaranteed unconditionally for 2 years. We will gladly replace any Knight resistor that does not give two full years of satisfactory performance when operated at correct wattage. Simply return the resistor if it does not live up to this guarantee, and we will promptly send you a new one without charge. Don't be misled by the very low prices of these resistors. They are the finest you can buy. Used by thousands of servicemen, amateurs, set builders and experimenters. Shpg. wt., 3 oz. each.

STANDARD STOCK RANGES—SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
50	400	1750	6000	15000	50000	200000	900000	5 meg.	
75	500	2000	7000	17500	60000	250000	1 meg.	6 meg.	
100	600	2500	7500	20000	70000	300000	1.5 meg.	7 meg.	
150	750	3000	8000	25000	75000	400000	2 meg.	8 meg.	
200	1000	3500	9000	30000	100000	500000	2.5 meg.	9 meg.	
250	1250	4000	10000	35000	125000	600000	3 meg.	10 meg.	
300	1500	5000	12500	40000	150000	750000	4 meg.		

B1575. 1/4 WATT.

Size: 3/8" x 1/2".

NET EACH.....**4c**

Per Doz.....**35c**

Per 100.....**\$2.75**

B1576. 1/2 WATT.

Size: 1/2" x 3/4".

NET EACH.....**5c**

Per Doz.....**45c**

Per 100.....**\$3.55**

B1577. 1 WATT.

Size: 1" x 3/4".

NET EACH.....**6c**

Per Doz.....**56c**

Per 100.....**\$4.45**

B1578. 3 WATT.

Size: 2" x 1 1/2".

NET EACH.....**9c**

Per Doz.....**89c**

Per 25.....**\$1.73**

WIRE-WOUND RESISTORS



Wire-wound on a bakelite strip with solder lugs at each end. Resistance wire is space-wound; cannot short between turns. Pressed on solder lugs. Power rating is 1/2 watt. *Insert in series with cathode of 25Z5 and B+ to prevent condenser breakdown due to surges. Use two in series for center tapping. Higher values also used in series with cathode and ground for self-biased tubes. Shpg. wt., 3 oz.

No.	Ohms	No.	Ohms	No.	Ohms
B9075	1	B9082	15	B9089	200
B9076	2	B9083	20	B9090	400
B9077	3	B9084	25	B9091	500
B9078	4	B9085	30	B9092	600
B9079	5	B9086	40	B9093	700
B9080	6	B9087	50*	B9094	900
B9081	10	B9088	100	B9095	1000

10 FOR 63c. NET EACH.....**7c**



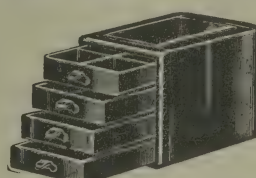
CENTER-TAPPED RESISTORS

May be used in any filament or hum balancing circuit. Wire-wound on flexible fibre with pressed-windings for permanent contact. For filament windings less C. T. Wt., 3 oz. ea.

No.	Ohms	No.	Ohms	No.	Ohms
B9096	6	B9099	20	B9102	100
B9097	10	B9100	40	B9103	200
B9098	15	B9101	60	B9104	400

10 FOR 71c. NET EACH.....**8c**

RESISTOR ASSORTMENT AND STEEL UTILITY CABINET



100 1/2 Watt and 1 Watt Resistors

Carefully selected assortment of 50—1/2 watt and 50—1 watt insulated carbon resistors with a handy utility cabinet for small parts. Overall size of cabinet, 5 1/2" wide, 8" deep, 7 1/4" high. Made of pressed steel with rounded and beveled edges and corners. Hard-baked olive green enamel finish. Four easy-sliding drawers divided into compartments.

CONTAINS THE FOLLOWING UNITS:

Ohms	Ohms	Ohms	Ohms
300 (2)	2000 (4)	20000 (4)	100000 (8)
400 (4)	2500 (2)	25000 (8)	200000 (2)
500 (4)	3000 (2)	30000 (2)	250000 (8)
600 (2)	5000 (4)	40000 (2)	500000 (8)
1000 (4)	10000 (8)	50000 (8)	1 meg. (4)
1500 (2)	15000 (4)	75000 (2)	2 meg. (2)

NOTE: Figure in bracket indicates quantity. (1/2 quantity are 1/2 watt; 1/2 are 1 watt.)

B1580. All steel cabinet, as illustrated, complete with 100 resistors and color—**\$3.95** code guide. Wt., 8 lbs. NET.

B1590. Cabinet only. Wt., 5 lbs. **\$88c** NET.

FREE: The above cabinet free with any 150 Knight Carbon resistors you select.

IRC RESISTORS

IRC ALL-PURPOSE INSULATED RESISTORS



Illustrations Show Actual Size.

fiers, etc. Both types are fully insulated and sealed against moisture by a heavy molded phenolic jacket. Resistors can be grouped or mounted against the chassis without danger of shorts. Special hollow tube core dissipates heat through the tinned wire leads. Shpg. wt., 3 oz.

STANDARD STOCK RANGES—SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.5	30	400	2250	9000	30000	150000	2 meg.
1	40	450	2500	10000	35000	200000	3 meg.
2	50	500	3000	11000	40000	250000	4 meg.
3	75	600	3500	12000	50000	300000	5 meg.
5	100	750	4000	12500	60000	400000	6 meg.
7.5	150	800	5000	15000	65000	500000	7 meg.
10	200	1000	6000	17500	70000	600000	10 meg.
15	250	1250	7000	20000	75000	750000	15 meg.
20	300	1500	7500	22500	100000	1 meg.	
25	350	2000	8000	25000	125000	1.5 meg.	

TYPE BT-1/2—1/2 WATT

B1505. Available in all ranges from 250 ohms to 20 megohms. (Below 250 ohms use BW-1/2 units below.) $\frac{1}{4}$ " long, $\frac{3}{16}$ " dia. Specify values when ordering. List, Each, 17c. **NET EACH. 10c.**

TYPE BT-1—1 WATT

B1506. Available in all ranges from 350 ohms to 20 megohms. (Below 350 ohms use BW-1 units below.) Size, $1\frac{1}{4}$ " x $\frac{1}{4}$ ". Specify values when ordering. List, Each, 20c. **NET EACH. 12c.**

TYPE BT-2—2 WATT

B1507. Available in all ranges from 500 ohms to 20 megohms. (Below 500 ohms use BW-2 resistors listed below.) Size, $1\frac{1}{2}$ " x $\frac{3}{8}$ ". Specify values when ordering. List, Each, 30c. **NET EACH. 18c.**

TYPE BW-1/2—1/2 WATT

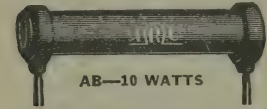
B1508. Available in all ranges from 0.5 to 750 ohms, in standard stock ranges shown above. Size, $\frac{5}{16}$ " x $\frac{3}{16}$ ". List, 17c. **NET EACH. 10c.**

TYPE BW-1—1 WATT

B1509. Available in all ranges from 1 to 5000 ohms, in standard stock ranges shown above. Size, $1\frac{1}{4}$ " x $\frac{1}{4}$ ". List, 20c. **NET EACH. 12c.**

TYPE BW-2—2 WATT

B1510. Available in all ranges from 1 to 8000 ohms, in standard stock ranges shown above. Size, $1\frac{1}{4}$ " x $\frac{3}{8}$ ". List, 30c. **NET EACH. 18c.**



AB—10 WATTS

IRC POWER WIRE-WOUND RESISTORS

Finest resistance wire is evenly spaced on non-hygroscopic ceramic core. Durable cement coating provides protection against extreme heat and humidity. With tinned wire leads. Actual tests prove these units superior for mechanical strength, load capacity, etc. Conform to N.E.M.A. standards. Accurate within 5%. Av. wt., 4 oz. *AB—5 watt.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	7.5	25	150	350	750	1450	2500	4500	7500	12500	*30000
2	10	50	200	400	800	1500	3000	5000	8500	15000	*35000
3	15	75	250	500	1000	2000	3500	6000	10000	20000	*40000
5	20	100	300	600	1250	2250	4000	7000	12000	25000	*50000

TYPE AB—10 WATTS

B1520. Available in all ranges up to 50,000 ohms. Extremely popular among Servicemen and Experimenters for making up voltage divider networks. $1\frac{1}{4}$ " long; $\frac{3}{16}$ " diam. Heavy tinned leads for easy connection. Thoroughly dependable resistor units. **NET EACH. 24c.**

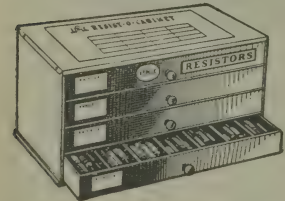
TYPE DG—20 WATTS

Available in all ranges except 2, 3, 7.5, 15, 20 ohms, 600, 1500 and 8,500 ohms. $2\frac{1}{2}$ " long; $\frac{3}{8}$ " diam. For all types of installations. **B1525, 1-15,000 Ohm Units. 38c. NET EACH.** **B1526, 20,000 to 50,000 Ohm. 44c. NET EACH.**

BE SURE TO SPECIFY CORRECT VALUES WHEN ORDERING ABOVE RESISTORS

IRC ALL-METAL RESIST-O-CABINET

Sturdily-built, all steel cabinet. Silver and blue finish. 4 large drawers with separate compartments for small parts. Size: $11\frac{1}{2}$ " long, $5\frac{1}{2}$ " wide, $5\frac{1}{4}$ " deep. Especially suited for storing small parts and hardware in the shop. **FREE** with resistor assortments listed below.



FREE—With Purchase of Assortments Listed

RESISTOR ASSORTMENT No. 1

A balanced resistor assortment for efficient servicing of all types of sets. Contains resistors as follows: **BT-1/2, 1/2 Watt, 1 each:** 1000, 5000, 10000, 25000, and 50000 ohms; **1, .25, and .5 meg;** **BT-1, 1 Watt, 1 each:** 40000 and 75000 ohms; **.15 and .2 meg;** **2 each:** 1000, 1500, 2000, 2500, 5000, 15000, and 25000 ohms; **1.0 and 2.0 meg;** **3 each:** 10000 and 50000 ohms; **1, .25, and .5 meg;** **AB 10 Watt, 1 each:** 1000, 1500, 2500, and 5000 ohms; **2 each:** 10000, 15000, and 25000 ohms; **ABA 10 Watt adjustable, 1 each:** 1000, 2500, 5000, and 10000 ohms. Shpg. wt., 7 lbs. **B1518. Complete with above cabinet. NET. \$8.91**

RESISTOR ASSORTMENT No. 2

Contains 100 Type BT-1/2 and BW-1/2 Wats. Ideal for $\frac{1}{4}$, $\frac{1}{2}$ or $\frac{1}{2}$ watt replacements in midjet sets, or for meter work, etc. Units range from 50 ohms to 2.0 meg. Assortment based on servicing needs. Shpg. wt., 7 lbs. **B1516. Complete with above cabinet. NET. \$9.80**

RESISTOR ASSORTMENT No. 3

Contains 83 Type BT-1 and BW-1, 1 Watt Metalized Resistors in a balanced assortment ranging from 50 ohms to 2.0 meg. Ideal for servicing requirements and as meter multipliers in laboratory equipment. Shpg. wt., 7 lbs. **B1517. Complete with above cabinet. NET. \$9.76**

IRC WIRE-WOUND PRECISION RESISTORS

Ideal for use as meter multipliers and shunts. Accuracy within 1%. Values to 500,000 ohms have lug terminals; size: $1\frac{1}{2}$ " x $\frac{3}{8}$ " dia. Others have knurled nuts; size: $2\frac{1}{2}$ " x $\frac{7}{8}$ " dia. Available in odd sizes on special order at cost of next higher value. Wt., 3 oz.



No.	Ohms	NET	No.	Ohms	NET
B1530	1		B1551	40000	\$0.79
B1531	10		B1552	50000	.79
B1532	25		B1553	60000	.94
B1533	50		B1554	75000	.94
B1534	100	50c	B1555	100000	1.09
B1535	200		B1556	125000	1.23
B1536	250		B1557	150000	1.38
B1537	500		B1558	175000	1.38
B1538	1000		B1559	200000	1.38
B1539	1500		B1560	225000	1.53
B1540	2000	53c	B1561	250000	1.53
B1541	2500		B1562	300000	1.68
B1542	4000		B1563	400000	1.76
B1543	5000	59c	B1564	500000	2.00
B1544	7500		B1565	600000	2.50
B1545	10000		B1566	750000	2.65
B1546	12500		B1567	1 Meg.	3.09
B1547	15000	65c	B1568	1.5 Meg.	4.41
B1548	20000		B1569	2 Meg.	5.88
B1549	25000	79c	B1570	2.5 Meg.	7.35
B1550	30000				

IRC RESISTANCE ANALYZER AND INDICATOR

Indispensable for radio service and experimenting. Indicates exact value of unknown resistors, potentiometers, voltage dividers, etc., by substitution. Also used in laboratories as a utility resistor. Assembly consists of heavy continuously variable resistance, from zero to one megohm.



VOLUME CONTROL INDICATOR

Direct-reading etched scale clearly indicates exact resistance in use. Four flexible, color-coded test leads facilitate use as a voltage divider or potentiometer. Fused to prevent overloads. In sturdy molded bakelite case, complete with leads, fuses, alligator clips, instructions. Shpg. wt., 3 lbs. **\$4.85**

B1512. NET. \$4.85
B6232. Extra 1/2 amp. fuse. NET. \$1.20

MUTER 5 WATT WIRE-WOUND "ZIPOHMS"



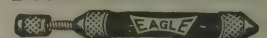
Flat, wire-wound resistors to replace over-loaded carbon units. Impregnated with high-temperature cement. Noiseless, thoroughly insulated and accurate within 5%. Each unit is marked with value. Shpg. wt., approx. 4 oz.

SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms
100	600	1500	4500	12500
125	700	1750	5000	15000
150	750	2000	6000	16000
200	800	2250	7000	17500
250	900	2500	7500	18000
300	1000	3000	8000	20000
350	1100	3500	9000	22500
400	1200	4000	10000	25000
500	1250			

B6748. 5 WATT. Size, 1 1/2 x 1/2", except units rated 12,500 to 25,000 ohms which are 2 x 1/2". With 1/2" tinned leads. 15c. NET EACH.

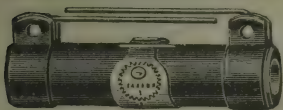
EAGLE PLUNGER LEAK



Adjustable grid leak, range up to 50 megohms. Standard mounting. Easily adjusted. Fits standard holders. Shpg. wt., 2 oz. **B3974. YOUR PRICE. 25c.**

Finest Quality RESISTORS

KNIGHT WIRE-WOUND POWER RESISTORS



Finest power resistors, wire-wound on a ceramic core. For radio, electrical and industrial applications. Coated with a black, protective cement. Wt., 4 oz.

SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms
1	75	1000	7500	60000†
2*	100	1250	10000	70000†
5	150	1500	15000	80000†
10	200	2000	20000	100000†
15*	250	2500	25000	
20*	400	3000*	30000	
25	500	4000	40000	
50	750	5000	50000	

10 WATT SIZE. 1 3/4 x 5/16"

B4342. In all values except those marked †. Specify values when ordering. **16¢**

20 WATT SIZE. 2 x 1/2"

Available in all values except those marked *. Specify values when ordering. **32¢**

B4343. Values 5 to 50,000 ohms. Specify values desired. **37¢**

B4344. Values 60,000 to 100,000 ohms. Specify values desired. **37¢**

KNIGHT 5-WATT WIRE-WOUND RESISTORS



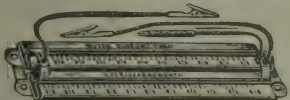
Finest quality wire-wound resistors for all radio work. Moisture-proof, triple-insulated. Tolerance within 2%. With pig-tails and lugs. Size: 1 3/4 x 3/8". Shpg. wt., 3 oz.

SPECIFY VALUE DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms
5	150	900	2500	9000
10	200	1000	2750	10000
15	250	1100	3000	12500
20	400	1250	4000	15000
25	500	1500	5000	17500
50	600	1750	6000	20000
75	750	2000	7000	22500
100	800	2250	8000	25000

B4340. **10 FOR \$1.25.** **NET EACH..... 14¢**

CANDOHMETER RESISTANCE INDICATOR



Accurately calibrated dual-range resistance indicator. Determines value of required resistors. Dual range 0 to 10,000, and 0 to 100,000. With leads, prods and clips. 6 oz. **\$1.18**

MUTER CANDOHM RESISTORS



We can supply an exact duplicate of the original Candohm resistor you wish to replace. Give all numbers on original part, and make, model and tube line-up of receiver. In most cases shipment is made from stock. For unusual replacements, 3 to 5 days are required. Please send a 75¢ deposit with your order; shipment will be made C.O.D. for balance due. Prompt refund made if cost is less than 75¢.

KNIGHT ADJUSTABLE WIRE-WOUND RESISTORS



A high-grade line of husky resistors that will take plenty of punishment. Wound on ceramic tubes; made to rigid specifications. For use in power packs, as replacements, etc. Slot is provided for sliding contact. Supplied complete with lug slider and mounting brackets. Stock and use **Knight** resistors — the finest wire-wound resistors you can buy. Av. wt., 6 oz.

Ohms	10 WATT Size, 1 3/4 x 3/8"		25 WATT Size, 2 x 1/2"	
	No.	NET	No.	NET
1	B4200		B4240	
2	B4201		B4241	
3	B4202		B4242	
4	B4203		B4243	
5	B4204		B4244	
7.5	B4205		B4245	
10	B4206		B4246	
15	B4207		B4247	
20	B4208		B4248	
25	B4209		B4249	
50	B4210		B4250	
75	B4211		B4251	
100	B4212		B4252	
150	B4213		B4253	
200	B4214		B4254	
250	B4215		B4255	
300	B4216		B4256	
400	B4217		B4257	
500	B4218		B4258	
600	B4219		B4259	
750	B4220		B4260	
800	B4221		B4261	
1000	B4222		B4262	
1250	B4223		B4263	
1500	B4224		B4264	
2000	B4225		B4265	
2500	B4226		B4266	
3000	B4227		B4267	
3500	B4228		B4268	
4000	B4229		B4269	
5000	B4230		B4270	
6000	B4231			
7500	B4232			
8000	B4233			
8500				
9000				
10000				
12000				
15000				
20000				
25000				

B4345. Extra Lug for 10 Watt Units.... **5¢**
B4346. Extra Lug for 25 Watt Units.... **5¢**

Ohms	50 WATT Size, 4 x 3/4"		80 WATT Size, 6 x 3/4"	
	No.	NET	No.	NET
5	B4275		B4310	
10	B4276		B4311	
15	B4277		B4312	
20	B4278		B4313	
25	B4279		B4314	
40	B4280		B4315	
50	B4281			
75	B4282			
100	B4283		B4316	
150			B4317	
200			B4318	
250			B4319	
300			B4320	
400			B4321	
500			B4322	
750			B4323	
1000			B4324	
1500			B4325	
2000			B4326	
2500				
3000				
3500				
4000				
5000				
7500				
8000				
10000				
12000				
15000				
20000				
25000				
30000				
35000				
40000				
45000				
50000				
60000				
80000				
100000				

B4346. Extra Lug for 50 and 80 W Units **5¢**
NOTE: For 100 and 200 watt adjustable wire-wound resistors see listings on page 156.

OHMITE "BROWN DEVIL" WIRE-WOUND RESISTORS



Famous "Brown Devil" resistors for all radio and industrial requirements. Accurately rated. Wound on porcelain core. Heavy Vitreous enamel covering protects winding, quickly dissipates heat, affords protection against moisture and acids even under abnormal conditions. Size: 1 3/4 x 3/8"; with tinned wire leads. Av. shpg. wt., 3 oz.

STANDARD STOCK RANGES

Ohms	Ohms	Ohms	Ohms	Ohms
1*	125*	1000	6000	25000
2*	150	1100*	7000	30000
3*	200	1200	7500	35000
4*	225*	1250	8000	40000
5	250	1500	8500*	45000
7.5*	300	1750	10000	50000
10	350	1850†	11000*	55000†
12*	400	2000	12000*	60000†
15*	450*	2250	12500	65000†
20*	500	2400†	13500*	70000†
25	600*	2500	14300*	75000†
30*	650†	2750†	15000	80000†
35*	700	3000	16000*	85000†
40*	750	3500	17500*	90000†
50	800	4000	18000*	95000†
75	850	4500	20000	100000†
100	900*	5000	22500*	

10 WATT RESISTORS

B8292. Available in all values from 1 to 50,000 ohms, except those marked †. Specify values when ordering. **24¢**

20 WATT RESISTORS

Available in all values listed above, except those marked *. Av. shpg. wt., 5 oz.

B8293. Values, 5 to 15,000 ohms. Size, 2 x 1/2". Specify values desired. **38¢**

B8294. Values, 20,000 to 50,000 ohms. Size, 2 x 1/2". Specify values desired. **44¢**

B8295. Values, 55,000 to 100,000 ohms. Size, 2 x 1/2". Specify values desired. **59¢**

SPRAGUE KOOLOHM RESISTORS



Individual turns are fully insulated. Cannot short between turns and cause noise or lowered resistance. Finished resistor coated with "Rubencote" which quickly dissipates heat. Red dot at end changes to brown when resistor is overloaded. Changes back to red when lead is corrected. Can be mounted against chassis without danger of shorting. Wound on brown ceramic pin. Av. shpg. wt., 3 oz.

STOCK RANGES AVAILABLE

Ohms	Ohms	Ohms	Ohms	Ohms
5	100	800	4000	15000
10	150	900	5000	17500
15	200	1000	6000	20000
20	250	1250	7500	25000
25	300	1500	8000	30000
30	400	1750	9000	40000
40	500	2000	10000	50000
50	600	2500	12500	60000
75	700	3000	14000	70000

SPECIFY VALUES DESIRED

5 WATT—1 1/8 x 3/8"		
No.	Ohms	EACH
B4490	10 to 5000	18¢
B4491	6000 to 10000	21¢
B4492	12500 to 15000	24¢
B4493	20000	26¢
B4494	25000	29¢
B4495	30000	35¢
B4496	40000	44¢
10 WATT—1 3/4 x 3/8"		
B4497	5 to 15000	24¢
B4498	17500 to 25000	29¢
B4499	30000	35¢
B4500	40000	44¢
B4501	50000	53¢
B4502	60000	65¢
B4504	70000	71¢

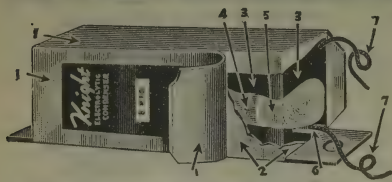


KNIGHT ELECTROLYTIC CONDENSERS

THE FINEST ELECTROLYTICS YOU CAN BUY!

QUALITY MATERIALS AND
EXPERT CONSTRUCTION

FULLY GUARANTEED BY
ALLIED FOR ONE YEAR



1. Sturdy outside cardboard container.
2. Wax-impregnated inner liner.
3. Carton completely filled with pure wax.
4. Etched aluminum foil increases capacity.
5. Superior grade cellulose separator.
6. Terminal lead permanently riveted.
7. Flexible, insulated push-back leads.

CARDBOARD CASED DRY ELECTROLYTICS



These KNIGHT single and multiple section electrolytic condensers are adaptable to practically any filter and by-pass application. Flanges may be removed without injury to condenser. The 6" color-coded insulated leads allow the greatest flexibility in mounting. Conservatively rated at 525 D.C. surge volts; 450 D.C. working volts. Multiple units have separate sections. KNIGHT condensers will do the job efficiently. Shpg. wt., 6 oz.

525 VOLTS SURGE—450 VOLTS WKG.

SINGLE SECTION

No.	Mfd.	Size, Inches	NET
B3823	2	4 1/4 x 1 1/2 x 5/8	23c
B3824	4	4 1/4 x 1 1/2 x 5/8	27c
B3825	6	4 1/4 x 1 1/2 x 5/8	32c
B3826	8	4 1/4 x 1 1/2 x 5/8	34c
B3827	10	4 1/4 x 1 1/2 x 1/4	41c
B3828	12	4 1/4 x 1 1/2 x 1/4	47c
B3811	16	4 1/4 x 1 1/2 x 1/4	52c

MULTIPLE SECTION

No.	Mfd.	Size, Inches	NET
B3829	4-4	4 1/4 x 1 1/2 x 1/4	43c
B3830	4-8	4 1/4 x 1 1/2 x 1/4	49c
B3832	8-8	4 1/4 x 1 1/2 x 1/4	54c
B3833	4-4-4	4 1/4 x 1 1/2 x 1/4	65c
B3834	8-8-8	4 1/4 x 1 1/2 x 1/4	80c

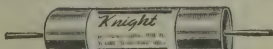


BANTAM SIZE DRY ELECTROLYTICS

The latest perfected development in small electrolytics. Same as standard condensers above except that the foil has been treated to increase surface area, consequently increasing capacity and decreasing overall size. Six inch leads. With tabs for easy mounting. Hole centers, 2 5/8". Wt., 5 oz.

525 VOLTS SURGE—450 VOLTS WKG.

No.	Mfd.	Size, Inches	NET
B3813	2	2 1/2 x 3/4 x 1/2	23c
B3814	4	2 1/2 x 1 x 1/2	26c
B3815	6	2 1/2 x 1 1/4 x 1/2	32c
B3816	8	2 1/2 x 1 1/2 x 1/2	34c
B3817	12	3 1/2 x 1 1/2 x 1/2	47c
B3818	4-4	2 1/2 x 1 1/2 x 1/2	43c
B3819	8-8	2 1/2 x 1 1/2 x 1/2	54c



CARTRIDGE TYPE DRY ELECTROLYTICS

Cardboard encased electrolytics with 2" bare wire leads. Completely wax-filled. Sizes vary from 2 to 3" long; 5/8 to 1" diameter. Dependable units for all filter applications in set building and replacement. Shpg. wt., 4 oz.

No.	Mfd.	D. C. Wkg.	Surge V.	NET
B3776	1	450	525	20c
B3777	2	450	525	24c
B3799	8	450	525	33c
B3784	8	200	250	27c
B3798	16	150	200	38c
B3787	5	50	75	20c
B3788	10	50	75	22c
B3790	5	25	40	16c
B3791	10	25	40	17c
B3792	25	25	40	27c
B3793	5-5	25	40	25c
B3794	10-10	25	40	28c

Deduct 10% on Orders for 10 or More Knight Cartridge Type Dry Electrolytics.

"TINY-KNIGHT" MIDGET DRY ELECTROLYTICS



Newly developed dry electrolytics designed to fit the smallest spaces. Full capacity provided by special etched foil. Built for low leakage and to withstand high surges. Can be used to replace much larger dry electrolytics. Hermetically sealed in wax-impregnated cardboard containers. With bare wire leads. Polarity and capacity clearly marked. Shpg. wt., 4 oz.

Deduct 5% on Orders for 10 or More

No.	Mfd.	Wkg. V.	Size	NET
B4400	4	450	1 1/8 x 1 1/8	24c
B4401	8	450	1 1/8 x 1 1/8	26c
B4402	12	450	1 1/8 x 1 1/8	33c
B4403	16	450	2 1/8 x 1/8	39c
B4404	20	450	2 1/8 x 1 1/8	44c
B4405	4	350	1 1/8 x 3/8	21c
B4406	8	350	1 1/8 x 3/8	24c
B4407	12	350	1 1/8 x 3/8	30c
B4408	4	250	1 1/8 x 3/8	20c
B4409	8	250	1 1/8 x 3/8	22c
B4410	12	250	1 1/8 x 3/8	29c
B4411	16	250	1 1/8 x 3/8	33c
B4412	4	150	1 1/8 x 3/8	18c
B4413	8	150	1 1/8 x 3/8	20c
B4414	12	150	1 1/8 x 3/8	21c
B4415	16	150	1 1/8 x 3/8	24c
B4416	20	150	1 1/8 x 3/8	26c
B4417	40	150	1 1/8 x 3/8	29c
B4426	5	50	1 1/8 x 3/8	20c
B4427	10	50	1 1/8 x 3/8	22c
B4418	25	50	1 1/8 x 3/8	24c
B4419	10	25	1 1/8 x 3/8	18c
B4420	25	25	1 1/8 x 3/8	22c

DUAL CARDBOARD TUBULARS

No.	Mfd.	Wkg. V.	Size	NET
B4480	8-8	450	2 1/8 x 1"	44c
B4481	8-16	450	2 1/8 x 1"	59c
B4482	8-8	350	2 1/8 x 1 1/4"	41c
B4483	8-16	250	2 1/8 x 1 1/4"	45c
B4484	8-16	200	2 1/8 x 1 1/4"	41c
B4485	12-12	200	2 1/8 x 1 1/4"	41c
B4486	16-16	200	2 1/8 x 1 1/4"	45c
B4487	20-20	150	2 1/8 x 1 1/4"	45c
B4488	10-10	50	2 1/8 x 3/8"	29c



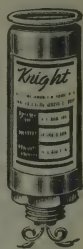
UNIVERSAL REPLACEMENT DRY ELECTROLYTICS

Excellent for general replacement use. Average sizes: Figure A—1 1/4" x 3/4"; Figure B—1 3/4" x 3/4"; Figure C—1 1/2" x 2 1/4". *1 1/2" x 3/4". Wt., 4 oz.

No.	Mfd.	Wkg. V.	Fig.	NET
B4770	8-8	450	A	51c
B4771	8-8	450	B	51c
B4772	8-16	450	A	59c
B4773	8-16	450	B	59c
B4774	16-16	450	A	73c
B4775	16-16	450	B	73c
B4776	8-8	200	B	39c
B4777	8-16	200	B	42c
B4778	12-16	200	A	51c
B4779	16-16	200	B	51c
B4780	20-20	150	C	45c
B4781	20-20	150	C	38c
B4782	8-16	200	B	64c
B4783	8-16	200	A	64c
B4784	12-16	200	A	68c
	10-10	35	A	

ALUMINUM CAN TYPE DRY ELECTROLYTICS

Popular, low-priced dry electrolytic condensers mounted in aluminum insulated containers. Have standard stud and nut mounting and insulated leads. Shpg. wt., 8 oz.



No.	Mfd.	Size	NET
B3851	4	4 1/4 x 1 1/2	31c
B3853	8	4 1/4 x 1 1/2	38c
B3855	12	4 1/4 x 1 1/2	50c
B3859	16	4 1/4 x 1 1/2	56c
B3856	4-4	4 1/4 x 1 1/2	47c
B3858	8-8	4 1/4 x 1 1/2	53c
B3863	8-8-8	4 1/4 x 1 1/2	97c
B3868	8	2 1/2 x 1"	38c
B3869	16	2 1/2 x 1"	56c

WET ELECTROLYTICS

For heavy-duty filter work. Self-healing properties and ability to withstand voltage overloads make these units dependable. For upright mounting only. Cans are negative. Require 3/4" mounting hole. All units have screw base and are supplied with palmnut for mounting. Use these quality condensers for all types of filter work. They are carefully rated for efficient service. Shpg. wt., 6 oz.



No.	Mfd.	Peak V.	Size	NET
B2712	8	600	1 1/2" x 4 3/4"	53c
B2711	16	600	1 1/2" x 4 3/4"	78c
B2713	4	500	1 1/2" x 4 3/4"	35c
B2714	8	500	1 1/2" x 4 3/4"	38c
B2715	10	500	1 1/2" x 4 3/4"	42c
B2716	12	500	1 1/2" x 4 3/4"	45c
B2717	16	500	1 1/2" x 4 3/4"	49c
B2701	20	500	1 1/2" x 4 3/4"	55c
B2702	24	500	1 1/2" x 4 3/4"	59c
B2703	30	500	1 1/2" x 4 3/4"	68c
B2704	40	500	1 1/2" x 4 3/4"	75c

NEW BASE PRONG DRY ELECTROLYTICS

A new type of dry electrolytic condenser with base prongs which fit chassis slots or mounting plates below for mounting. Twisting base tabs provide a quick, convenient rigid mounting. Hermetically sealed for high stability. Molded rubber base with self-healing vent. Metal can is negative lead. Standard diameters, 1" and 1 1/8". Shpg. wt., 8 oz.



No.	Mfd.	Wkg. V.	Size	NET
B4785	10	450	1x2"	31c
B4786	20	450	1x2"	45c
B4795	40	450	1x3"	78c
B4791	20-20	450	1x3 3/4"	81c
B4790	10-10	250	1 1/2 x 2 1/2"	48c
B4789	20-20	250	1x2"	48c
B4787	20-20	150	1x2"	45c
B4788	30-30	150	1x2"	51c
B4794	10-10	450-350-25	1 1/2 x 3"	71c
B4793	15-15-20	250-25	1x2"	75c
B4792	30-20-20	150-25	1x2 1/2"	62c

MOUNTING PLATES

For direct condensers. Two types: for grounding direct to chassis or insulating from chassis.

B4796. Grounding Plate for 1" can.
B4797. Insulating Plate for 1" can.
B4798. Grounding Plate for 1 1/8" can.
B4799. Insulating Plate for 1 1/8" can.
NET EACH.....2 1/2c



KNIGHT BY-PASS AND REPLACEMENT CONDENSERS



KNIGHT MOLDED BAKELITE MICA CONDENSERS

Genuine bakelite molded units with bare leads $1\frac{1}{2}$ " long. Test voltage: 1000 V. D.C. to .002 mfd.; 750 V. D.C. above .002 mfd. Size: $\frac{3}{4}$ " square. Have high Q; low power factor. Wt., 2 oz.

Deduct 10% on orders for 10 or more of these units. Buy in quantities and save.

No.	Mfd.	NET	No.	Mfd.	NET
B7827	.000025	6c	B7823	.0007	10c
B7828	.00004		B7836	.0008	
B7829	.00005		B7824	.0009	
B7830	.00007		B7837	.001	
B7831	.00015	8c	B7839	.002	12c
B7832	.0002		B7840	.0025	
B7833	.00025		B7841	.003	
B7821	.0003		B7842	.004	
B7834	.0004	15c	B7825	.005	25c
B7835	.0005		B7826	.006	
B7822	.0006		B7819	.01	
					33c



SILVER MICA CONDENSERS

Especially recommended for circuits where highest stability is required. Designed to resist drift; all types have high Q and are unusually stable. Molded in special hard wax; have thoroughly anchored $1\frac{1}{4}$ " bare leads. Test voltage: 1000 V. D.C.; operating voltage: 500 V. D.C. Size: $\frac{7}{8}$ " x $\frac{3}{4}$ " x $\frac{1}{4}$ ". Wt., 2 oz.

Deduct 10% on orders for 10 or more.

No.	Mfd.	NET	No.	Mfd.	NET
B7843	.0001	11c	B7852	.0008	13c
B7844	.00015		B7853	.0009	
B7845	.0002		B7854	.001	
B7846	.00025		B7855	.0015	
B7847	.0003	13c	B7856	.002	17c
B7848	.0004		B7857	.0025	
B7849	.0005		B7858	.003	
B7850	.0006		B7859	.004	
B7851	.0007		B7860	.005	24c
					26c

KNIGHT UNCASED SECTIONS

Wax-dipped for filter block repairing. Compact; paper and foil type. 6" leads. Wt., 5 oz.

200 VOLTS			400 VOLTS		
Mfd.	No.	Net	No.	Net	
.25	B7741	9c	B7746	16c	
.5	B7742	11c	B7747	18c	
1.0	B7743	18c	B7748	28c	
2.0	B7744	29c	B7749	54c	
600 VOLTS			1000 VOLTS		
.25	B7750	24c	B7754	36c	
.5	B7751	37c	B7755	55c	
1.0	B7752	33c	B7756	73c	

Deduct 10% on orders for 10 or more of above sections. Buy them in quantities and save.

EXACT DUPLICATE BLOCKS

The units below have the same physical dimensions as the originals. We can also supply condenser blocks not shown. Send in old block with deposit and full information, and we will duplicate. When ordering give make, model number and tube line-up of the radio receiver.

ATWATER-KENT		
No.	Model	NET
B7106	Spr. filter (A.K. 14902)	\$0.59
B7107	90, 9P6, 9BP6 (with res.)	
	($\frac{1}{4}$ " - $\frac{1}{4}$ " - $\frac{1}{4}$ ")	.59
B7128	40, 52. Condensers only	1.47

KNIGHT		
B7109	SG8	\$3.40
B7110	SG8 (212)	.52
B7111	SG8 (213)	.58
B7112	SG8 (214)	.88

MAJESTIC		
B7115	70, 7P6, 7BP6	\$1.70
B7118	90, 9P6, 9BP6 (with res.)	1.85
B7119	90 (.5)	.34
B7120	180, 8P6	2.90

RCA-VICTOR		
B7124	R32, RE45, 52	\$4.20

KNIGHT PERM-A-SEAL TUBULAR CONDENSERS

Knight Perm-A-Seal tubulars are specially treated to give efficient, long-lived service. Unexcelled for building or repairing. Non-inductive windings; ideal for RF use. Entire unit is sealed in a wax mold. Prevents breakdowns due to moisture absorption. Tinned leads $2\frac{1}{2}$ " long. Average shpg. wt., 3 oz.

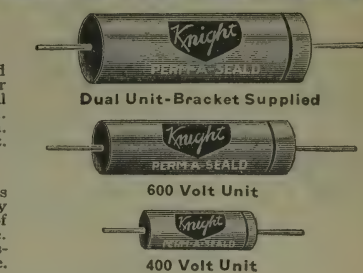
FULLY GUARANTEED FOR ONE YEAR

Phenomenal life of these condensers permits this unconditional guarantee. We will replace any Knight condenser that does not give a full year of good service when operated at the correct voltage. Simply return the condenser if it proves unsatisfactory, and a new one will be sent without charge.

Deduct 10% on Orders for 10 or More Units.

400 VOLTS DC			
No.	Mfd.	Size	NET
B7915	.001	$\frac{3}{8}$ x $1\frac{1}{2}$ "	6c
B7916	.002	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7917	.003	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7918	.004	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7919	.005	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7920	.006	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7921	.01	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7922	.02	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7923	.03	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7924	.04	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7925	.05	$\frac{3}{8}$ x $1\frac{1}{2}$ "	8c
B7926	.06	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7927	.1	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7928	.25	$\frac{1}{2}$ x $2\frac{1}{2}$ "	
B7929	.5	1 x $2\frac{1}{2}$ "	
B7930	1.0	1 x $2\frac{1}{2}$ "	
			14c
			20c

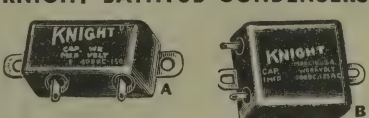
200 VOLTS DC			
No.	Mfd.	Size	NET
B7910	.1	$\frac{1}{2}$ x $1\frac{1}{2}$ "	7c
B7911	.2	$\frac{1}{2}$ x $2\frac{1}{2}$ "	
B7912	.25	$\frac{1}{2}$ x $2\frac{1}{2}$ "	
B7913	.5	$\frac{3}{4}$ x $2\frac{1}{2}$ "	13c
B7914	1.0	$\frac{3}{4}$ x $2\frac{1}{2}$ "	
			20c



600 VOLTS DC			
No.	Mfd.	Size	NET
B7931	.001	$\frac{3}{8}$ x $1\frac{1}{2}$ "	6c
B7932	.002	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7933	.003	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7934	.004	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7935	.005	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7936	.006	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7937	.01	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7938	.02	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7939	.03	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7940	.04	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7941	.05	$\frac{3}{8}$ x $1\frac{1}{2}$ "	8c
B7942	.06	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7943	.1	$\frac{3}{8}$ x $1\frac{1}{2}$ "	
B7944	.25	$\frac{1}{2}$ x $2\frac{1}{2}$ "	
B7945	.5	$\frac{3}{4}$ x $2\frac{1}{2}$ "	
			12c
			17c

DUAL UNITS			
No.	Mfd.	Volts	NET
B7946	.1 - 1	200	14c
B7947	.25 - 25	200	16c
B7948	.1 - 1	400	14c
B7949	.1 - 1	600	24c

KNIGHT BATHTUB CONDENSERS



Non-inductive, moisture-proof bathtub condensers with metal shell. Designed for long life. Will last for years if operated within rated voltage. **Type A:** $1\frac{1}{2}$ " x $\frac{3}{4}$ ". **Type B:** Single, $1\frac{1}{2}$ " x $2\frac{1}{2}$ ". **Deduct 10% on orders for 10 or more.** Shipping weight, 6 oz.

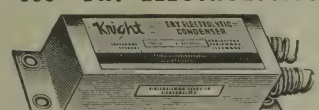
BY-PASS (TYPE A)

No.	Mfd.	Volts	EACH
B7773	.1	200	13c
B7774	.25	200	17c
B7775	.5	200	22c
B7776	1	300	14c
B7777	.25	300	18c
B7778	.5	300	32c
B7779	.05	400	12c
B7780	.1	400	15c
B7781	.25	400	19c
B7782	1	400	26c

SINGLE SECTION (TYPE B)

No.	Mfd.	Volts	EACH
B7786	1.0	200	30c
B7787	2.0	200	49c
B7788	1.0	300	31c
B7791	1.0	400	32c
B7792	.25	400	19c
B7793	.5	400	22c

"600" DRY ELECTROLYTICS



600 Volt Peak—475 V.D.C. Wkg.

Developed especially for use in P. A. amplifiers and for other equipment with high standards of condenser quality. Will stand heavy surges. Mounting tabs may be cut off. Wt., 6 oz.

No.	Mfd.	Size	NET
B3801	4	$4\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{7}{8}$ "	46c
B3802	8	$4\frac{1}{2}$ x $1\frac{1}{2}$ x $1\frac{1}{2}$ "	54c
B3805	8-8	$4\frac{1}{2}$ x $1\frac{1}{2}$ x $1\frac{1}{2}$ "	88c

PERM-A-SEAL KITS

Kits include 12 most popular condensers described above. Includes capacitors most often requiring replacement. Mount condensers on sturdy strip supplied. Convenient for portable kit or shop use. Wt., 2 lbs.

B7760. Consists of 1 each:

Mfd.	Volts	Mfd.	Volts
.001	400	.004	600
.003	400	.005	600
.005	400	.01	600
.006	400	.03	600
.001	600	.05	600
.002	600	.1	600

YOUR PRICE..... 75c

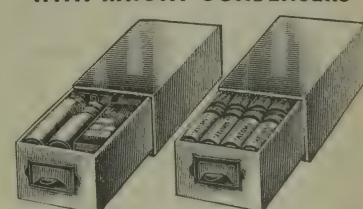
B7761. Consists of 1 each:

Mfd.	Volts	Mfd.	Volts
.1	200	.05	400
.25	200	.06	400
.5	200	.1	400
1.0	200	.25	400
.01	400	.5	400
.03	400	1.0	400

YOUR PRICE..... \$1.19



FREE METAL CABINET WITH KNIGHT CONDENSERS



Handy metal cabinet for storing condensers, resistors, and other small parts. Supplied free with your order for \$4.00 or more of Knight Electrolytics, Tiny Knights, Perm-A-Seal, or Micas listed on these two pages. Steel cabinet measures $9\frac{1}{4}$ x $4\frac{1}{2}$ x $2\frac{1}{2}$ ". Finished in dark green enamel. Shpg. wt., 3 lbs. Two or more of these cabinets can be stacked or placed along side of each other. Cabinet also supplied without condensers at the following price:

B7762. Cabinet Only. NET..... 95c

AEROVOX CONDENSERS

ALUMINUM CAN TYPE DRY ELECTROLYTICS

TYPE GL WIRE LEAD CONDENSERS



Finest quality materials only have been used in the construction of these rugged units. Excellent for any type of filter circuit. Especially suited for heavy-duty service. Expertly engineered and built to give fine service. Aluminum cans; inverted nut-mounting; flexible color-coded leads. Multiple sections have separate negatives. Shipping weight, 8 oz.

GL-600—SINGLE SECTION 600 V. DC Working

No.	Mfd.	Size	NET
B6425	4	1 1/2 x 4"	\$1.08
B6426	8	1 1/2 x 4 1/2"	1.52

GL-450—SINGLE SECTION

525 V. DC Peak—450 V. DC WKG.

B6415	4	1 1/2 x 3"	50c
B6416	8	1 1/2 x 4	61c
B6417	12	1 1/2 x 4	82c
B6418	16	1 1/2 x 4 1/2	91c

2GL450—DOUBLE SECTION

B6419	4-4	1 1/2 x 4"	\$0.76
B6420	4-8	1 1/2 x 4	.85
B6421	8-8	1 1/2 x 4	.94
B6422	8-16	1 1/2 x 4	1.18

3GL450—TRIPLE SECTION

B6423	4-4-4	1 1/2 x 3"	\$1.12
B6424	8-8-8	1 1/2 x 4 1/2	1.41

TYPE GLS—MIDGET CAN

Compact, aluminum can. Inverted screw mounting; two 8" coded flexible leads for each section. Use where space is limited. Shpg. wt., 8 oz.

525 V. DC Peak—450 V. DC WKG.

B6942	4	1 x 2 3/8"	50c
B6943	8	1 x 2 1/2"	61c
B6944	12	1 x 2 3/8"	82c
B6945	16	1 x 4	91c
B6961	8-8	1 1/2 x 3	94c

TYPE E UNIVERSAL MOUNTING



Large aluminum can dry electrolytics. Supplied with universal mounting ring for upright or inverted mounting. Multiple section units have individual sections with common negative grounded to can. Shpg. wt., 10 oz.

525 V. DC Peak—450 V. DC WKG.

B6782	8	1 1/2 x 3 1/2"	\$0.61
B6785	5-15	2 1/2 x 4 1/2"	1.35
B6789	8-8	2 1/2 x 4 1/2"	1.06
B6784	8-16	2 1/2 x 4 1/2"	1.38
B6786	8-8-8	3 x 4 1/2"	1.59
B6787	9-9-18	3 x 4 1/2"	2.20

TYPE I INVERTED MOUNTING



Standard size inverted electrolytic condensers for every replacement and set-building requirement. Insulated mounting. Have integral insulating boss cover and can lug. These condensers are ruggedly constructed for efficient, dependable service. Container is hermetically sealed. Shipping weight, 8 oz.

525 V. DC Peak—450 V. DC WKG.

B13239	8	1 1/2 x 3 1/2"	61c
B13240	12	1 1/2 x 4 1/2"	82c
B13241	16	1 1/2 x 4 1/2"	91c

REPLACEMENT CARDBOARD DRY ELECTROLYTICS



Universal electrolytics for all general replacement purposes. Separate wire leads for each section. *In rectangular cartons with mounting tabs; all others in cardboard tubes with spade lugs. Shpg. wt., 6 oz.

No.	Mfd.	Wkg.V.	Size	NET
B13242	8-8	450	1 1/2 x 4 1/2"	\$0.79
B13243	8-16	450	1 1/2 x 4 1/2"	.97
B13244	72-16	200	1 1/2 x 4 1/2"	.91
B13245	16-8x10-10	200x25	1 1/2 x 4 1/2"	1.21
B13246	16-12x10-10	200x25	1 1/2 x 4 1/2"	1.26
B13247	*8-8-20	200	1 1/2 x 1 1/2 x 2 1/2"	1.23
B13248	*16-16-8x5-5	150x25	1 1/2 x 1 1/2 x 3	1.44



"DANDEES" MINIATURE DRY ELECTROLYTICS

Type PRS. New compact tubular midgets in paper-covered aluminum cans. For use in crowded spaces in midjet, A.C.-D.C., and auto radios, and for general servicing. Both ends of jacket spun over can rim to eliminate possibility of shorts. Properly vented. With handy 3 1/2" tinned wire leads. Polarity indicating red and black end washers. Shpg. wt., 4 oz.

No.	Mfd.	Wkg.V.	Size	NET
B13370	4	450	1 1/2 x 1 1/2"	32c
B13371	8	450	1 1/2 x 1 1/2"	39c
B13372	12	450	1 1/2 x 1 1/2"	44c
B13373	16	450	1 1/2 x 2 1/2"	53c
B13365	20	450	1 1/2 x 2 1/2"	59c
B13366	8-8	450	1 x 2 1/2"	61c
B13369	*8-8	450	1 x 2 1/2"	79c
B13367	8-16	450	1 x 2 1/2"	76c
B13374	4	350	9/16 x 2 1/2"	29c
B13375	8	350	1 1/2 x 1 1/2"	31c
B13376	12	350	1 1/2 x 2 1/2"	41c
B13377	16	350	1 1/2 x 2 1/2"	47c
B13368	24	350	1 1/2 x 2 1/2"	53c
B13378	4	250	9/16 x 1 1/2"	26c
B13379	8	250	1 1/2 x 1 1/2"	29c
B13380	12	250	1 1/2 x 1 1/2"	38c
B13381	16	250	1 1/2 x 2 1/2"	44c
B13394	8-8	200	3/4 x 2 1/2"	47c
B13395	8-16	200	3/4 x 2 1/2"	59c
B13396	16-16	200	7/8 x 2 1/2"	68c
B13397	16-16	200	1 x 2 1/2"	97c
B13382	4	150	9/16 x 1 1/2"	24c
B13383	8	150	9/16 x 1 1/2"	26c
B13384	12	150	1 1/2 x 1 1/2"	29c
B13385	16	150	1 1/2 x 1 1/2"	31c
B13386	24	150	1 1/2 x 1 1/2"	31c
B13387	30	150	1 1/2 x 1 1/2"	38c
B13388	40	150	1 1/2 x 2 1/2"	41c
B13357	8-8	150	1 1/2 x 2 1/2"	47c
B13358	8-16	150	3/4 x 2 1/2"	50c
B13359	20-20	150	1 1/2 x 2 1/2"	61c
B13398	*20-20	150	1 x 2 1/2"	79c
B13389	10	50	9/16 x 1 1/2"	26c
B13390	25	50	1 1/2 x 1 1/2"	31c
B13360	50	50	1 1/2 x 1 1/2"	47c
B13361	100	50	1 1/2 x 2 1/2"	59c
B13391	10-10	50	9/8 x 2 1/2"	47c
B13392	10	25	9/16 x 1 1/2"	24c
B13393	25	25	9/16 x 1 1/2"	29c
B13362	50	25	1 1/2 x 1 1/2"	35c
B13363	100	25	1 1/2 x 1 1/2"	53c
B13364	10-10	25	9/8 x 2 1/2"	35c

*Have 4 leads, 2 for each section.

TYPE PG—INVERTED MOUNTING WET ELECTROLYTICS

Wet electrolytic condensers of finest quality. Ideal for heavy-duty work and wherever dry units give trouble. Especially popular in circuits subject to excessive peak voltages. Exclusive Aerovox vent permits instant escape of any gas pressure, yet effectively double-seals metal container against leakage of liquid electrolyte. Have self-healing feature for longer life. Inverted mounting. With stud and nut. Shipping weight, 8 oz.

PG500—500 VOLTS SURGE

No.	Mfd.	Size	NET
B13427	4	1 1/2 x 3 1/2"	\$0.47
B13428	6	1 1/2 x 3 1/2"	.50
B13429	8	1 1/2 x 3 1/2"	.56
B13430	10	1 1/2 x 3 1/2"	.61
B13431	12	1 1/2 x 3 1/2"	.68
B13432	16	1 1/2 x 4	.79
B13433	18	1 1/2 x 4	.88
B13434	20	1 1/2 x 4 1/2	.88
B13435	25	1 1/2 x 4	.97
B13436	30	1 1/2 x 4 1/2	1.00
B13437	35	1 1/2 x 4 1/2	1.03
B13438	40	1 1/2 x 4 1/2	1.12

PG600—600 VOLTS SURGE

B13439	4	1 1/2 x 3 1/2"	\$0.79
B13440	8	1 1/2 x 4 1/2"	.88
B13441	16	1 1/2 x 4 1/2"	1.18

TYPE PGM WET ELECTROLYTICS

Compact, rugged units. Similar to Type PG above, but especially designed for small space requirements. Self-healing feature. Adequate venting. Shpg. wt., 8 oz.

PGM—500 VOLTS SURGE

B13442	8	1 x 3 1/2"	56c
B13443	12	1 x 4 1/2"	68c
B13444	16	1 x 4 1/2"	79c

CARDBOARD CASED DRY ELECTROLYTICS

TYPE PBS MIDGET CONDENSERS

Space-saver midget units. Heavy cardboard containers; thoroughly impregnated and sealed. Adjustable mounting brackets and flexible leads. Each section of multiple units has separate color-coded leads. Unit may be mounted in any position. Shpg. wt., 6 oz.

TYPE PBS-600

600 V. DC Working

No.	Mfd.	Size	NET
B6770	4	1 1/2 x 1 1/2 x 2 1/2"	\$1.03
B6771	8	1 1/2 x 1 1/2 x 3 1/2"	1.44

TYPE PBS-450

525 V. DC Peak, 450 V. DC Wkg.

B6750	2	1 1/2 x 3/4 x 2 1/2"	\$0.38
B6751	4	3/4 x 1 x 2 1/2"	.44
B6752	8	1 1/2 x 1 1/2 x 2 1/2"	.55
B6754	12	1 1/2 x 1 1/2 x 3 1/2"	.56
B6755	16	1 1/2 x 1 1/2 x 4 1/2"	.85
B6756	4-4	1 1/2 x 1 1/2 x 2 1/2"	.70
B6757	8-8	1 1/2 x 1 1/2 x 2 1/2"	.88
B6778	8-16	1 1/2 x 1 1/2 x 3	1.12
B6758	8-8-8	1 1/2 x 1 1/2 x 3	1.29

TYPE PBS-250

300 V. Peak, 250 V. DC Wkg.

B6760	2	1 1/2 x 3/4 x 2 1/2"	\$0.32
B6761	4	3/4 x 1 x 2 1/2"	.38
B6762	8	1 1/2 x 1 1/2 x 2 1/2"	.47
B6764	12	1 1/2 x 1 1/2 x 3 1/2"	.55
B6765	16	1 1/2 x 1 1/2 x 4 1/2"	.61
B6753	25	1 1/2 x 1 1/2 x 3 1/2"	.72
B6763	30	1 1/2 x 1 1/2 x 4 1/2"	.83
B6766	4-4	1 1/2 x 1 1/2 x 2 1/2"	.52
B6767	8-8	1 1/2 x 1 1/2 x 2 1/2"	.53
B6768	8-16	1 1/2 x 1 1/2 x 3 1/2"	.65
B6769	8-8-8	1 1/2 x 1 1/2 x 3 1/2"	1.11

TYPE PBS-25

40 V. Peak, 25 V. DC Wkg.

B6984	5	1 1/2 x 3/4 x 2 1/2"	\$0.29
B6985	10	9/16 x 1 1/2 x 2 1/2"	.29
B6986	25	1 1/2 x 1 1/2 x 2 1/2"	.38

TYPE PB HEAVY-DUTY CONDENSERS

Cardboard-cased dry electrolytics for heavy-duty service. Sections are housed in wax-impregnated containers with adjustable universal flanges to fit any mounting hole spacing. Have flexible 8-inch polarity-indicating colored leads. Shpg. wt., 10 oz.



525 V. DC Peak—450 V. DC Wkg.

No.	Mfd.	Size	NET
B13234	8	1 1/2 x 1 1/2 x 4 1/2"	56c
B13235	12	1 1/2 x 1 1/2 x 4 1/2"	76c
B13236	16	1 1/2 x 1 1/2 x 4 1/2"	85c

TYPE PSM MULTIPLE SECTION

Heavy duty units similar to Type PB above but with cardboard flanges for flat mounting. Dual sections have color-coded leads and separate negatives. Best quality materials.

B13237	4-4	1 1/2 x 1 1/2 x 4 1/2"	71c
B13238	8-8	1 1/2 x 1 1/2 x 4 1/2"	88c

TYPE F PRONG BASE MIDGET DRY ELECTROLYTICS

Compact, economical units. Canprongs slip into bakelite mounting washer (for insulating from chassis), or into metal mounting washer (for grounding to chassis). All units hermetically sealed. With safety vent. Common negative. Dependable, easy to mount. Universal application. Shpg. wt., 8 oz.



No.	Mfd.	Wkg.V.	NET
B6930	10	450	\$0.50
B6931	20	450	1.13
B6932*	40	450	1.18
B6939	30	150	.44
B6933	10-10	450	.76
B6934*	20-20	450	1.29
B6935	10-10	250	.76
B6936	20-20	250	1.00
B6937	20-20	150	.71
B6938	30-30	150	.73
B6940*	10-10-10	450	1.23
B6941*	10-10x20	450x25	1.23
B6948	Metal-Mounting Washer.....		3c
B6949	Bakelite-Mounting Washer.....		3c

*In 1"x3" can. All others are 1"x2".

MALLORY CONDENSERS

P. R. MALLORY & CO. Inc.

TYPE BB FABRICATED PLATE TUBULAR ELECTROLYTICS



Single unit condensers housed in hermetically sealed metal tubes. All units have bare wire leads—insulating cover furnished. Compact size, without sacrifice of quality or performance, enables units to serve varied applications. Excellent practical replacements in cases where a section of a multiple unit becomes defective. Shpg. wt., 4 oz.

IN METAL CONTAINERS

No.	Mfd.	Wkg. V.	Type	Size	NET
B14910	4	450	60	1 7/8 x 1 1/2"	\$0.32
B14911	8	450	61	1 7/8 x 1 1/2"	.35
B14912	10	450	62	1 7/8 x 1 1/2"	.41
B14913	12	450	63	1 7/8 x 1 1/2"	.44
B14914	16	450	64	1 7/8 x 1 1/2"	.53
B14770	4	350	40	1 7/8 x 1 1/2"	.29
B14915	8	350	41	1 7/8 x 1 1/2"	.32
B14916	12	350	42	1 7/8 x 1 1/2"	.41
B14917	16	350	44	1 7/8 x 1 1/2"	.47
B14918	8	250	31	1 7/8 x 1 1/2"	.29
B14919	12	250	32	1 7/8 x 1 1/2"	.38
B14920	16	250	34	1 7/8 x 1 1/2"	.41
B14771	4	150	20	1 7/8 x 1 1/2"	.24
B14921	8	150	21	1 7/8 x 1 1/2"	.26
B14922	12	150	22	1 7/8 x 1 1/2"	.29
B14923	16	150	24	1 7/8 x 1 1/2"	.32
B14924	20	150	25	1 7/8 x 1 1/2"	.35
B14772	30	150	26	1 7/8 x 1 1/2"	.38
B14925	40	150	27	1 7/8 x 1 1/2"	.41
B14773	5	50	11	1 7/8 x 1 1/2"	.24
B14926	10	50	13	1 7/8 x 1 1/2"	.26
B14774	25	50	14	1 7/8 x 1 1/2"	.32
B14775	50	50	19	1 7/8 x 1 1/2"	.41
B14927	10	25	12	1 7/8 x 1 1/2"	.24
B14928	25	25	15	1 7/8 x 1 1/2"	.29
B14776	50	25	17	1 7/8 x 1 1/2"	.35

TUBULAR PAPER UNITS



TYPE TP

Small in size for easy installation. Have moisture-proof seal for long life. Non-inductive—provide low RF impedance. Shpg. wt., 4 oz.

600 VOLT DC TYPES

No.	Mfd.	NET	No.	Mfd.	NET
B13115	.0001		B13129	.025	12c
B13116	.00025		B13130	.03	12c
B13117	.0005		B13131	.04	12c
B13118	.007		B13132	.05	12c
B13119	.008		B13133	.06	15c
B13120	.001		B13134	.075	15c
B13121	.002		B13135	.1	15c
B13122	.003		B13136	.15	18c
B13123	.004		B13137	.2	21c
B13124	.005		B13138	.25	21c
B13125	.006		B13139	.3	26c
B13126	.01		B13140	.4	29c
B13127	.015		B13141	.5	29c
B13128	.02		B13142	1.0	47c

400 VOLT DC TYPES

B13150	.01		B13161	.25	15c
B13151	.015		B13159	.3	18c
B13152	.02		B13160	.4	21c
B13153	.03		B13162	.5	21c
B13154	.04		B13163	1.0	29c
B13155	.05		B13164	.01-.01	29c
B13156	.06		B13165	.05-.05	24c
B13157	.1	12c	B13166	.1	26c
B13158	.2	15c			

200 VOLT DC TYPES

B13167	.05	9c	B13170	.5	21c
B13168	.1	12c	B13171	1.0	29c
B13169	.25	15c	B13172	.25-.25	29c

TYPE OT OIL-IMPREGNATED CONDENSERS



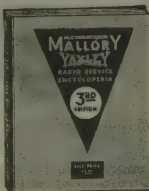
Hermetically sealed in leak-proof metal tubes. Ideal for vibrator buffers and high-voltage use. Shpg. wt., 4 oz.

1600 VOLTS DC WORKING

No.	Mfd.	Type	Size	NET
B14965	.002	370	1 1/4 x 3/4"	26c
B14966	.003	377	1 1/4 x 3/4"	26c
B14967	.005	371	1 1/4 x 3/4"	26c
B14968	.008	372	1 1/4 x 3/4"	26c
B14969	.01	373	1 1/4 x 3/4"	32c
B14970	.0125	374	1 1/4 x 3/4"	35c
B14971	.015	375	1 1/4 x 3/4"	35c
B14972	.02	376	1 1/4 x 3/4"	35c

MALLORY-YAXLEY RADIO ENCYCLOPEDIA

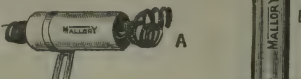
A completely revised 3rd edition. The most valuable book published for radio servicemen. Analyzes over 17,000 receivers with data on volume controls, resistors, condensers, vibrators, and filter circuits. Cloth bound, 8 1/2" x 11". Wt. 2lbs. **B11869. NET.....75c**



ALLIED CAN SUPPLY ALL MALLORY CONDENSERS

ALLIED stocks all Mallory condensers. If unit needed is not listed, order from M-Y Encyclopedia or Catalog. Your discount is 40/2% from list prices. Write for Mallory catalog. **B11867. Mallory Catalog.....FREE**

CARDBOARD TUBULAR DRY ELECTROLYTICS



Complete line of single and multiple units. **Note:** Capacities at same voltage separated by hyphen; comma indicates change in voltage. Shpg. wt., 6 oz.

ST—SINGLE UNITS FIG. B

No.	Mfd.	Wkg. V.	Type	Size	NET
B14850	8	450	595	7/8 x 2 3/4"	\$0.35
B14851	12	450	596	1 1/2 x 2 3/4"	.44
B14852	16	450	597	1 1/2 x 2 3/4"	.53
B14853	8	350	590	1 1/2 x 2 1/2"	.32
B14854	12	350	591	1 1/2 x 2 1/2"	.41
B14852	16	350	592	1 1/2 x 2 1/2"	.47
B14853	24	350	593	1 1/2 x 2 1/2"	.59
B14855	8	250	585	7/8 x 2 1/2"	.29
B14856	16	250	587	1 1/2 x 2 1/2"	.44
B14854	24	250	589	1 1/2 x 2 1/2"	.50

2N—DUAL COMMON-NEGATIVE FIG. A

B14857	8-8	450	518*	1 1/2 x 3 1/2"	\$0.62
B14858	8-8	350	517*	1 1/2 x 3 1/2"	.56
B14859	8-8	250	516*	1 1/2 x 3 1/2"	.50
B14860	8-8	150	502	3/4 x 2 3/4"	.47
B14861	16-8	150	504	3/4 x 2 3/4"	.50
B14862	16-16	150	506	7/8 x 2 3/4"	.56
B14863	20-10	150	507	7/8 x 2 3/4"	.56
B14864	20-20	150	509	1 1/2 x 2 3/4"	.62
B14865	10-10	50	113†	3/4 x 1 1/4"	.47
B14866	10-10	25	111†	3/4 x 1 1/4"	.41

*In Fig. B container.

†Type TN. In tube with bare wire leads.

2P—DUAL COMMON-POSITIVE FIG. A

B14867	8-8	150	542	1 1/2 x 2 1/2"	\$0.59
B14869	16-8	150	544	1 1/2 x 2 1/2"	.65
B14870	16-16	150	546	1 1/2 x 2 1/2"	.73
B14871	20-20	150	549	1 1/2 x 2 1/2"	.79

2S—DUAL SEPARATE-SECTION FIG. B

B14872	8-8	450	567	1 1/2 x 3"	\$0.79
B14873	8-16	450	563	1 1/2 x 3 3/4"	.97
B14876	16-16	450	569	1 1/2 x 4 1/4"	1.18
B14874	8-8	350	564	1 1/2 x 3"	.73
B14877	16-16	350	566	1 1/2 x 3 3/4"	1.06
B14875	8-8	250	560	1 1/2 x 2 3/4"	.65
B14878	16-16	250	562	1 1/2 x 3 3/4"	.97

TN—TRIPLE COMMON-NEGATIVE FIG. A

B14880	8-8-8	150	120	1 1/2 x 2 1/2"	\$0.68
B14881	16-8-4	150	122	7/8 x 2 1/2"	.71
B14879	20-10-10	150	125	1 1/2 x 2 1/2"	.82

3S—TRIPLE SEPARATE-SECTION* FIG. B

B14885	8-8-20	450	579	1 1/2 x 3 1/4"	\$0.97
B14886	8-8-20	350	575	1 1/2 x 3 1/4"	.88
B14887	8-8-20	250	570	1 1/2 x 3 1/4"	.88
B14888	8-8-8	450	584	1 1/2 x 3 3/4"	1.09
B14889	8-8-8	350	583	1 1/2 x 3 3/4"	.97
B14890	8-8-8	250	582	1 1/2 x 3 3/4"	.88

*First section separate, others common neg.

MOUNTING HARDWARE

B13490. Type A-016. Upright 3 terminal connector. EACH.....3c

B13491. Type 104-1. For mounting threaded—neck round can units on chassis. EACH.....6c

MOUNTING CLAMPS

B13492. Ring clamp for 1" round unit. 4c

B13493. Ring clamp for 1 1/2" round unit 5c

B13494. Ring clamp for 1 1/2" round unit 6c

B13495. Washer for clamp mtg. 1" can. 3c

CARDBOARD CARTON DRY ELECTROLYTICS

Small and compact replacement condensers. Internal metal seal prevents damage from excess heat or humidity. With mounting flanges; 8" color-coded leads. Shpg. wt., 6 oz.



CS—SINGLE SECTION

No.	Mfd.	Type	Size	NET
B11700	2	130	1 1/2 x 3/4 x 2 1/2"	\$0.38
B11701	4	131	5/8 x 1/2 x 2 1/2"	.44
B11703	8	133	5/8 x 1/2 x 2 1/2"	.56
B11705	12	135	1 1/2 x 1 1/2 x 2 1/2"	.76
B11706	16	136	1 1/2 x 1 1/2 x 2 1/2"	.85

300 V. Peak. 250 V. D.C. Working

B11708	8	123	3/4 x 7/8 x 2 1/2"	\$0.47
B11710	12	125	3/4 x 1 x 2 1/2"	.55
B11711	16	126	1 1/2 x 1 1/2 x 2 1/2"	.65

CN—COMMON-NEGATIVE

525 V. Peak. 450 V. D.C. Working

B11716	8-8	152	7/8 x 1 1/4 x 2 1/2"	\$0.88
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300 V. Peak. 250 V. D.C. Working

B11720	8-8	142	3/4 x 1 1/4 x 2 1/2"	\$0.76
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CM—SEPARATE SECTIONS

525 V. Peak. 450 V. D.C. Working

B11724	4-4	170	3/4 x 1 1/2 x 2 1/2"	\$0.71
B11725	4-8	171	7/8 x 1 1/2 x 2 1/2"	.79
B11726	8-8	172	1 1/2 x 1 x 2 1/2"	.88
B11727	4-4-4	173	1 1/2 x 1 x 3"	1.06
B11728	8-8-8	175	1 1/2 x 1 x 4 3/4"	1.29

300 V. Peak. 250 V. D.C. Working

B11729	4-4	160	3/4 x 1 1/2 x 2 1/2"	\$0.53
B11730	4-8	161	3/4 x 1 1/2 x 2 1/2"	.68
B11731	8-8	162	7/8 x 1 1/2 x 2 1/2"	.76
B11732	16-16	164	1 1/2 x 1 x 2 1/2"	1.06
B11733	8-8-8	165	1 1/2 x 1 x 3"	1.15

HEAVY-DUTY CAPACITORS

Type HD and HS dry condensers provide extra safety for heavy-duty uses. Type 684 is metal can type; others cardboard units. 6 oz.

No.	Mfd.	Wkg. V.	Type	Size	NET
B14898	8	450	684	3 1/4 x 1 3/8"	\$0.62
B14895	8	500	682	1 1/2 x 1 1/2 x 2 1/2"	.88
B14896	8	600	692	1 1/2 x 1 1/2 x 3"	1.44
B14897	4	600	690	7/8 x 1 1/4 x 3"	1.03

METAL CAN DRY UNITS

Sealed against humidity. With 8" leads, nut, and washer. Shpg. wt., 8 oz.



RS—SINGLE-SECTION

No.	Mfd.	Wkg. V.	Type	Size	NET
B11779	8	450	213	2 1/2 x 1"	\$0.62
B11780	12	450	215	2 1/2 x 1"	.82
B11781	16	450	216	3 1/2 x 1"	.91
B11783	8	250	203	2 1/2 x 1"	.56
B11784	12	250	205	2 1/2 x 1"	.65
B11785	30	250	207	3 1/2 x 1"	.88
B11795	50	250	208	3 1/2 x 1 1/2"	1.62
B11796	50	25	200	2 1/2 x 1"	.62

RM—SEPARATE-SECTION

B14902	4-8	450	261	3x1 $\frac{3}{8}$ "	\$0.85
B14903	8-8	450	262	3x1 $\frac{3}{8}$ "	.94
B14904	8-8-8	450	265	4x1 $\frac{3}{8}$ "	1.35
B14905	8-8	250	252	3x1 $\frac{3}{8}$ "	.85
B14906	8-8-8	250	255	3 $\frac{1}{2}$ x1 $\frac{3}{8}$ "	1.23
B14907	8-8-16	250	257	3 $\frac{1}{2}$ x1 $\frac{3}{8}$ "	1.38
B14908	8-16-16	250	259	3 $\frac{1}{2}$ x1 $\frac{3}{8}$ "	1.53

450 VOLT ELECTROLYTICS



TYPE LD

Exceptionally high quality dry electrolytic condensers. Moisture-proof. Wkg. V., 450; peak V., 525. Wt., 6 oz.

No.	Mfd.	Size—Inches	NET
B11401	4	4 1/2 x 1 3/4 x 1 3/4	\$0.44
B11403	8	4 1/2 x 1 3/4 x 1 3/4	.56
B11404	12	4 1/2 x 1 3/4 x 1 3/4	.76
B11405	16	4 1/2 x 1 3/4 x 1 3/4	.85
B11406	4-4	4 1/2 x 1 3/4 x 1 3/4	.71
B11408	8-8	4 1/2 x 1 3/4 x 1 3/4	.88
B11409	8-8	4 1/2 x 1 3/4 x 1 3/4	.88
B11412	8-8-8	4 1/2 x 1 3/4 x 1 3/4 (6-Leads)	1.29

PINHEAD "TINY-MIKES"

TYPE PTM



Double-tested, compact dry electrolytics. 450 working volts. Max. surge, 525. Tabs may be rotated, adjusted, or bent. Wt., 5 oz.

No.	Mfd.	Size—Inches	NET
B11380	2	3/4 x 3/4 x 2 1/2	38c
B11381	4	3/4 x 3/4 x 2 1/2	44c
B11382	8	3/4 x 1 1/2 x 2 1/2	56c
B11383	12	1 x 1 1/2 x 2 1/2	76c
B11384	16	1 1/4 x 1 1/2 x 2 1/2	85c
B11385	4-4	1 x 1 1/2 x 2 1/2	71c
B11386	4-8	1 x 1 1/2 x 2 1/2	79c
B11387	8-8	1 x 1 1/2 x 2 1/2	88c

ALUMINUM CAN TYPES



High quality compact units. Excellent for all filter uses. Extremely low power factor. Supplied in two convenient types complete with mounting hardware. Type LS (Fig. A) with insulated washer; PLS (Fig. B) can be insulated. Wkg. voltage, 450. Max. surge voltage, 525. Shpg. wt., 6 oz.

LS—INVERTED UNITS

No.	Mfd.	Size—Inches	NET
B11440	8	1 3/4 x 4 3/4	\$0.62
B11441	12	1 3/4 x 4 3/4	.82
B11442	16	1 3/4 x 4 3/4	.91
B11443	8-8	1 3/4 x 4 3/4	.91
B11444	8-8	1 3/4 x 4 3/4 (4 Leads)	.94

TYPE PLS—"TINY MIKE"

No.	Mfd.	Size—Inches	NET
B11426	8	1 x 3	.62
B11427	12	1 x 3	.81
B11428	16	1 x 3	.91
B11429	8-8	1 1/2 x 3	.94

PAPER REPLACEMENTS FOR ELECTROLYTICS



Designed for replacing defective electrolytics of the values specified below. Feature low leakage and power factor. No polarity to observe. Wt., 6 oz.

DR—METAL CAN

No.	Mfd.	Wkg. V.	Size—Inches	NET
B13275	4	600	4 3/4 x 1 3/4	\$0.79
B13276	8	600	4 3/4 x 1 3/4	1.03
B13277	4-4	600	4 3/4 x 1 3/4	1.32
B13278	8-8	600	4 3/4 x 1 3/4	1.65

TYPE RP—CARDBOARD

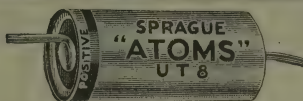
No.	Mfd.	Wkg. V.	Size—Inches	NET
B13279	8	600	4 1/2 x 1 3/4 x 1 3/4	\$0.94
B13280	8-8	600	4 1/2 x 1 3/4 x 1 3/4	1.56

SILVERED MICA CONDENSERS



An inexpensive substitute for air condensers. Minimum Q of 1500. Highly stable; not affected by heat. 700 wkg. V. Wt., 2 oz.

No.	Mfd.	NET	No.	Mfd.	NET
B13250	.000005	21c	B13260	.0005	
B13251	.00001		B13261	.0006	
B13252	.000015		B13262	.0007	18c
B13253	.00002		B13263	.0008	
B13254	.000025		B13264	.0009	
B13255	.00005		B13265	.001	24c
B13256	.0001	15c	B13266	.002	
B13257	.0002		B13267	.003	29c
B13258	.0003		B13268	.004	32c
B13259	.0004	18c	B13269	.005	35c



SPRAGUE "ATOMS"

MIDGET DRY ELECTROLYTICS

New "mite-size" dry electrolytics. Perfect for replacements. Sized to fit the smallest spaces. Contained in sealed aluminum tubes and protected against "blow-ups." Wt., 4 oz.

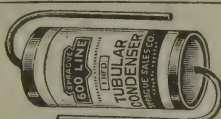
No.	Mfd.	Wkg. V.	Size	NET
B13316	4	450	1 1/2 x 1 3/4	32c
B13317	8	450	1 1/2 x 1 3/4	35c
B13318	12	450	1 1/2 x 1 3/4	44c
B13319	16	450	1 1/2 x 1 3/4	53c
B13320	20	450	1 1/2 x 1 3/4	59c
B13313	4	350	3/4 x 1 3/4	29c
B13314	8	350	3/4 x 1 3/4	32c
B13315	12	350	3/4 x 1 3/4	41c
B13309	4	250	3/4 x 1 3/4	26c
B13310	8	250	3/4 x 1 3/4	29c
B13311	12	250	3/4 x 1 3/4	38c
B13312	16	250	3/4 x 1 3/4	44c
B13303	4	150	3/4 x 1 3/4	24c
B13304	8	150	3/4 x 1 3/4	26c
B13305	12	150	3/4 x 1 3/4	29c
B13306	16	150	3/4 x 1 3/4	32c
B13307	20	150	3/4 x 1 3/4	35c
B13308	40	150	3/4 x 1 3/4	38c
B13355	5	50	3/4 x 1 3/4	24c
B13356	10	50	3/4 x 1 3/4	26c
B13302	25	50	3/4 x 1 3/4	32c
B13300	10	25	3/4 x 1 3/4	24c
B13301	25	25	3/4 x 1 3/4	29c

DUAL CARDBOARD TUBULARS

B13328	8-8	450	1 x 2 3/4	62c
B13330	*8-8	450	1 1/2 x 3 3/4	79c
B13354	8-16	450	1 x 2 3/4	79c
B13353	8-16	250	3/4 x 2 3/4	62c
B13331	*16-16	250	1 x 2 3/4	97c
B13327	8-16	200	3/4 x 2 3/4	56c
B13326	12-12	200	3/4 x 2 3/4	56c
B13329	16-16	200	3/4 x 2 3/4	62c
B13350	8-8	150	1 1/2 x 2 3/4	47c
B13351	20-20	150	1 1/2 x 2 3/4	62c
B13332	*20-20	150	1 x 2 3/4	79c
B13352	10-10	50	3/4 x 2 3/4	47c

*Separate positive and negative leads.

B11432. Special Atom Kit. Six popular 8 mfd. 450 volt Sprague Atoms packed in a handy carton. Carry a stock. **\$1.98 NET**



TUBULAR BY-PASS UNITS

Compact tubular condensers. Non-inductively wound Oil-impregnated. Type T—test voltage, 1200; AA test voltage, 800. Shpg. wt., 4 oz.

AA—400 VOLT			TC—600 VOLT		
No.	EACH	Mfd.	No.	EACH	Mfd.
B11310		.0001	B11360		
B11311		.00025	B11361		
B11312		.0004	B11362		
B11313		.0005	B11363		
B11314		.001	B11364		
B11315		.002	B11365		
B11316		.003	B11366		
B11317		.004	B11367		
B11318		.005	B11368		
B11319		.006	B11369		
B11320		.01	B11370		
B11321		.02	B11371		
B11322		.03	B11378	12c	
B11323		.04	B11379	12c	
B11324		.05	B11372	12c	
B11325	12c	.06	B11373	15c	
B11326	12c	.1	B11374	15c	
B11327	15c	.25	B11375	21c	
B11328	21c	.5	B11376	29c	
B11329	29c	1.0	B11377	47c	

HANDY TC 600 VOLT KITS

Assortments of most popular 600 volt tubular condensers. In handy carton at savings.

B11433. 5-5 mfd. 600 volt tubulars. **\$1.25**

B11434. 6-25 mfd. 600 volt tubulars. **.98**

B11435. 8-1 mfd. 600 volt tubulars. **.98**

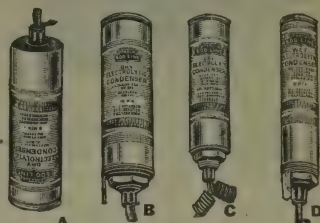
B11436. 12-05 mfd. 600 volt tubulars. **1.20**

B11437. 15-01 mfd. 600 volt tubulars. **1.10**

B11438. 15-02 mfd. 600 volt tubulars. **1.10**

B11449. 33 popular assorted 600 V. units. Ranges from .001 to .3 mfd. **\$3.50**

"600" ELECTROLYTICS



ALUMINUM CAN TYPE

Extremely long-life filter condensers. Low power factor and low leakage. 600 Volts Peak; 475 Volts Working. Impervious to heat and moisture. Sturdy construction. A is supplied with universal mounting bracket. Wt., 8 oz.

UPRIGHT TYPE AC—FIG. A

No.	Mfd.	Size	NET
B11331	8	1 3/4 x 4 3/4	\$0.88
B11332	12	1 3/4 x 4 3/4	1.21
B11333	16	1 3/4 x 4 3/4	1.35
B11334	8-8	1 3/4 x 4 3/4	1.41
B11335	8-8-8	3 x 4 3/4	2.35
B11336	5-15	2 1/2 x 4 3/4	1.96

INVERTED TYPE SC—FIG. B

Dry electrolytics in aluminum cans.

B11341	4	1 x 3 1/2	\$0.73
B11342	8	1 1/2 x 4 3/4	.88
B11343	10	1 1/2 x 4 3/4	1.06
B11346	12	1 1/2 x 4 3/4	.71
B11347	16	1 1/2 x 4 3/4	1.35
B11343	8-8	1 1/2 x 4 3/4	1.41
B11344	8-8	1 1/2 x 4 3/4 (4 Leads)	1.41

800 VOLTS—TYPE AP—FIG. C

Can be inverted; screw mounting. 600 Volts Working; for heavy-duty applications.

B11413	4	1 3/4 x 4 3/4	\$1.09
B11414	8	1 1/2 x 4 3/4	1.53

WET ELECTROLYTICS—FIG. D

Heavy-duty, durable self-healing condensers. Built to withstand high peak voltages safely. Chrome-plated cans. Leak-proof. Wt., 8 oz.

TYPE WC—FIG. D—500 V. PEAK

B11350	4	1 x 3 1/2	\$0.47
B11351	8	1 x 4 1/2	.56
B11359	8	1 1/2 x 3 1/4	.56
B11352	10	1 1/2 x 3 1/4	.62
B11353	12	1 1/2 x 3 1/4	.68
B11354	16	1 1/2 x 3 1/4	.68
B11355	18	1 1/2 x 4 1/4	.85
B11356	25	1 1/2 x 4 1/4	.85
B11357	30	1 1/2 x 4 1/4	1.00

WC REGULATING TYPE—300 V. PEAK

B11415	18	1 3/4 x 3 1/4	\$0.68
B11416	40	1 3/4 x 4 1/4	.79

TYPE WC—600 VOLT PEAK

B11417	4	1 3/4 x 3 1/4	\$0.76
B11418	8	1 1/2 x 4 1/4	.88
B11419	16	1 1/2 x 4 1/4	1.18



600 V. CARDBOARD CASED

600 Volts Peak, 475 Volts Working. Long push-back leads and mounting flanges. Wt., 8 oz.

TYPE DC—STANDARD UNITS

No.	Mfd.	Size in Inches	NET
B11300	2	2 1/2 x 7 3/4 x 3/4	\$0.56
B11301	4	4 1/2 x 1 1/2 x 1/2	.68
B11303	8	4 1/2 x 1 1/2 x 1/2	.79
B11304	4-4	4 1/2 x 1 1/2 x 1/2	1.06
B11305	4-8	4 1/2 x 1 1/2 x 1/2	1.18
B11306	8-8	4 1/2 x 1 1/2 x 1/2	1.29
B11307	8-8	4 1/2 x 1 1/2 x 1/2 (4 Leads)	1.29

TYPE AD—800 VOLTS PEAK

A high quality cardboard-cased condenser for heavy-duty requirements. 600 Volts Working.

B11420	4	1 3/4 x 1 3/4 x 2 1/2	\$1.03
B11421	8	1 3/4 x 1 3/4 x 2 1/2	1.44

CAN TYPE RC—1000 VOLTS PEAK

Designed for public radio, transmitters, and high-voltage uses. Rectangular can type. 800 Volts Working. Wt., 8 oz.

B11422	2	1 3/4 x 1 3/4 x 4 1/4	\$1.09
B11423	4	1 3/4 x 1 3/4 x 4 1/4	1.18
B11424	8	1 3/4 x 1 3/4 x 4 1/4	1.62



CORNELL-DUBILIER CONDENSERS



TYPE BR "BLUE BEAVER" TUBULAR DRY ELECTROLYTICS

Ideal where space is limited. Patented process gives higher voltage breakdown. In cardboard-covered aluminum can. Shpg. wt., 4 oz.

No.	Mfd.	Wkg. V.	Size	NET
B14575	8	500	1/2x1 1/16"	\$0.50
B14576	16	500	1x2 1/2"	.76
B14550	4	450	3/4x1 1/16"	.32
B14551	8	450	1x2"	.35
B14573	10	450	3/4x1 1/16"	.41
B14552	12	450	1/2x2"	.44
B14553	16	450	1/2x2 1/2"	.53
B14554	20	450	1x2 1/2"	.59
B14555	4	350	3/4x1 1/16"	.29
B14556	8	350	3/4x1 1/16"	.32
B14557	12	350	1/2x2"	.41
B14558	16	350	1/2x2"	.47
B14559	4	250	3/4x1 1/16"	.26
B14560	8	250	3/4x1 1/16"	.29
B14561	12	250	1/2x2"	.38
B14562	16	250	3/4x1 1/16"	.44
B14563	20	250	3/4x1 1/16"	.47
B14564	40	250	1x2 1/2"	.56
B14565	4	150	3/4x1 1/16"	.24
B14566	8	150	3/4x1 1/16"	.26
B14567	12	150	3/4x1 1/16"	.29
B14568	16	150	3/4x1 1/16"	.32
B14569	20	150	3/4x1 1/16"	.35
B14574	30	150	1/2x2"	.38
B14570	40	150	1/2x2"	.41
B14577	5	50	3/4x1 1/16"	.24
B14578	10	50	3/4x1 1/16"	.26
B14579	20	50	3/4x1 1/16"	.29
B14580	25	50	3/4x1 1/16"	.32
B14581	50	50	3/4x1 1/16"	.41
B14571	10	25	3/4x1 1/16"	.24
B14582	20	25	3/4x1 1/16"	.26
B14572	25	25	3/4x1 1/16"	.29
B14583	50	25	3/4x1 1/16"	.35

BRL DUAL BEAVERS

B14585	8-8	450	1x2 3/4"	\$0.62
B14586	8-16	450	1 1/2x3 1/4"	.79
B14587	8-16	450	1 1/2x3 1/4"	.79
B14588	16-16	250	1x2 3/4"	.73
B14594	4-4	150	1 1/4x1 3/4"	.41
B14589	8-8	150	3/4x2 1/4"	.47
B14590	8-16	150	1 1/2x2 1/4"	.50
B14595	16-16	150	1 1/2x2 1/4"	.56
B14596	20-10	150	1 1/2x2 1/4"	.56
B14591	20-20	150	1 1/2x2 1/4"	.62
B14592	40-20	150	1 1/2x2 1/4"	.68
B14598	5-5	50	3/4x1 1/2"	.44
B14592	10-10	50	3/4x2 1/4"	.47
B14593	5-5	25	3/4x1 1/4"	.35
B14599	10-10	25	3/4x1 1/4"	.41

C-D CAPACITOR MANUAL

B14699. FREE. New 256 page book listing replacement condensers for almost every radio set. Ask for it with your next order for Cornell-Dubilier condensers.



MOLDED BAKELITE MICA CONDENSERS

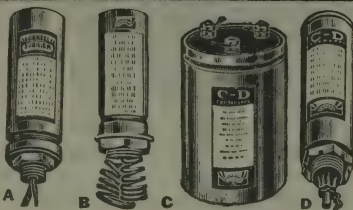
Built of highest quality components and carefully tested. Have India ruby mica dielectric, special wax-treated stack, brown bakelite case, and positive terminal connections. Tested at 1000 V. D.C. (on units up to .003 mfd.; 600 V. test on higher capacities). Shpg. wt., 2 oz.

TYPE 5W — 5/8" x 3/8" x 3/16"

No.	Mfd.	EACH	No.	Mfd.	EACH
B14664	.000025	\$0.12	B14669	.00015	\$0.09
B14665	.00003	.12	B14670	.0002	.09
B14666	.00004	.09	B14671	.00025	.12
B14667	.00005	.09	B14672	.0004	.12
B14668	.0001	.09	B14673	.0005	.12

TYPE 1W — 3/4" x 3/4" x 3/16"

No.	Mfd.	EACH	No.	Mfd.	EACH
B14674	.0008	\$0.12	B14680	.004	\$0.26
B14675	.001	.15	B14681	.005	.29
B14676	.0015	.15	B14682	.006	.35
B14677	.002	.18	B14683	.008	.38
B14678	.0025	.21	B14684	.01	.44
B14679	.003	.24			



ALUMINUM CAN TYPES DRY ELECTROLYTICS

TYPE EB — FIG. A.

525 V. D. C. Peak—450 V. D. C. Working

High grade inverted type dry electrolytic condensers. Internal sections are completely insulated from metal container. Single mounting type with insulated wire leads. Exceptional stability, minimum leakage. Av. shpg. wt., 4 oz.

No.	Mfd.	Size	NET
B14500	8	1 1/2x4 1/4"	\$0.62
B14501	12	1 1/2x4 1/4"	.82
B14502	16	1 1/2x4 1/4"	.91
B14503	8-8	1 1/2x4 1/4"	.94

TYPE KR "COMPACT" — FIG. B.

Compact etched-foil dry electrolytic condensers, easily installed on the smallest chassis. Multiple units have separate leads. Wt., 4 oz.

450 Volts D.C. Working

No.	Mfd.	Size	NET
B14504	8	1x2 1/2"	\$0.62
B14505	12	1x2 1/2"	.82
B14513	16	1x3 1/2"	.91
B14506	8-8	1x3 1/2"	.94
B14507	8-16	1 1/2x4 1/4"	1.32
B14508	8-8-8	1 1/2x4 1/4"	1.35

600 Volts D.C. Working

B14510	4	1 3/4x3 1/4"	\$1.09
B14511	8	1 3/4x4 1/2"	1.53
B14512	16	1 3/4x4 1/2"	2.06

TYPE EA — FIG. C.

Single and multiple section electrolytics in aluminum containers. Mount in any position by means of clamping rings supplied. Can is common negative. 450 Volts D.C. wkg. Wt., 8 oz.

No.	Mfd.	Size	NET
B14515	8	1 3/4x4 1/4"	\$0.62
B14516	5-15	2 1/2x4 1/4"	1.35
B14517	8-8	2 1/2x4 1/4"	1.06
B14518	8-16	2 1/2x4 1/4"	1.38
B14519	8-8-8	3 1/4x4 1/4"	1.59
B14520	9-9-18	3 1/4x4 1/4"	2.20
B14521	9-9-18-18	3 1/2x4 1/4"	3.09

WET ELECTROLYTICS

TYPE EY — FIG. D. 500 V. D. C. PEAK

Ideal for all heavy-duty work where dry units give trouble. Low power factor. Self-healing. Stud and nut mounting. Av. shpg. wt., 8 oz.

No.	Mfd.	Size	NET
B14524	4	1 1/2x4 1/4"	\$0.47
B14525	6	1 1/2x4 1/4"	.56
B14526	8	1 1/2x4 1/4"	.56
B14527	10	1 1/2x4 1/4"	.62
B14528	12	1 1/2x4 1/4"	.68
B14529	16	1 1/2x4 1/4"	.79
B14530	18	1 1/2x4 1/4"	.88
B14465	20	1 1/2x4 1/4"	.88
B14466	25	1 1/2x4 1/4"	.97
B14467	30	1 1/2x4 1/4"	1.00
B14468	40	1 1/2x4 1/2"	1.12

COMPACT DRY ELECTROLYTICS

Type JR. Treated inner liner cartons; capacitor windings sealed in wax. Design permits stacking units together. Convenient mounting feet. Shpg. wt., 6 oz.

525 D.C. PEAK, 450 V. D.C. WKG.

No.	Mfd.	Size	NET
B14600	8	2 1/2x1 1/2x1 1/16"	\$0.56
B14601	12	2 1/2x1 1/2x1 1/16"	.76
B14608	16	2 1/2x1 1/2x1 1/16"	.85
B14602	8-8	2 1/2x1 1/2x1 1/16"	.88
B14609	8-8-8	2 1/2x1 1/2x1 1/16"	1.29

250 V. D.C. PEAK, 200 V. D.C. WKG.

No.	Mfd.	Size	NET
B14604	8	2 1/2x1 1/2x3/16"	\$0.47
B14605	12	2 1/2x1 1/2x3/16"	.59
B14606	16	2 1/2x1 1/2x3/16"	.65



"DWARF" TUBULAR PAPER CONDENSERS

TYPE DT

These units are exceptionally reliable, non-inductive, small, all-purpose condensers. They are wax-impregnated and triple-sealed against moisture. High melting-point wax ends add strength and give extra protection to these condensers. Low power factor and high DC resistance make "Dwarf" Tubulars ideal for all RF, IF, and audio by-pass requirements. Conservative DC rating and triple-testing assure thoroughly dependable service. With 2 1/2" tinned leads. Shpg. wt., 4 oz.

400 VOLTS D.C. WORKING

No.	Mfd.	NET	No.	Mfd.	NET
B14625	.01		B14632	.06	\$0.12
B14626	.015		B14633	.1	.12
B14627	.02		B14634	.2	.15
B14628	.025		B14635	.25	.15
B14629	.03		B14636	.5	.21
B14630	.04		B14637	1.0	.29
B14631	.05				

600 VOLTS D.C. WORKING

No.	Mfd.	NET	No.	Mfd.	NET
B14639	.0001		B14659	.025	\$0.12
B14640	.00025		B14660	.03	.12
B14641	.0005		B14661	.04	.12
B14642	.001		B14662	.05	.12
B14643	.002		B14663	.06	.15
B14644	.003		B14664	.1	.15
B14645	.004		B14665	.2	.21
B14646	.005		B14666	.25	.21
B14647	.006		B14667	.3	.26
B14648	.01		B14668	.5	.29
B14649	.015		B14669	1.0	.38
B14650	.02				

VIBRATOR CONDENSERS

2000 V. D.C. PEAK — 1600 V. WKG.

Oil-impregnated and processed paper tubular condensers especially suited for use in vibrator units. Withstand high peaks. Shpg. wt., 8 oz.

No.	Mfd.	EACH	No.	Mfd.	EACH
B14686	.0008		B14692	.02	\$0.21
B14687	.0025		B14693	.03	.21
B14688	.005		B14694	.04	.24
B14689	.007		B14695	.05	.26
B14690	.0075		B14696	.1	.35
B14691	.01				

TYPE UP—MIDGET CAN DRY ELECTROLYTICS

Etched foil condensers in smallest size yet developed. Usually low power factor and low leakage. Convenient mounting flange. To insulate condenser, order bakelite mounting flange, B14545, at 3c extra. Sizes: *1in x 3" can; others in 1" x 2" can.

No.	Mfd.	Wkg. V.	NET
B14532	10	450	\$0.50
B14531	15	450	.62
B14533	20	450	.73
B14534	*40	450	1.18
B14535	30	250	.68
B14536	10-10	450	.76
B14537	*20-20	450	1.29
B14538	20-20	250	1.00
B14539	20-20	150	.71
B14540	30-30	150	.80
B14541	20-20-20	150	1.06
B14546	*10-10/20	450/25	1.12
B14542	10-10/20	450-350/25	1.12
B14543	15-15/20	250/25	1.18
B14544	30-20/20	150/25	.97

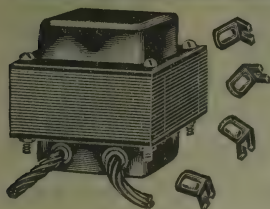
"SILVER MIKE" CONDENSERS



TYPE 2R. Molded silver-plate mica condensers for push-button circuits or wherever high stability is required. 1000 Volts D.C. test. Size: 1 1/2x1 1/2". Shpg. wt., 2 oz.

No.	Mfd.	EACH	No.	Mfd.	EACH
B14610	.00005	\$0.24	B14617	.0004	\$0.44
B14611	.00007	.24	B14618	.0005	.44
B14612	.0001	.24	B14619	.0007	.59
B14613	.00015	.29	B14620	.0008	.59
B14614	.0002	.29	B14621	.0009	.65
B14615	.00025	.29	B14622	.001	.73
B14616	.0003	.44			

Highest Quality KNIGHT TRANSFORMERS



KNIGHT POWER TRANSFORMERS

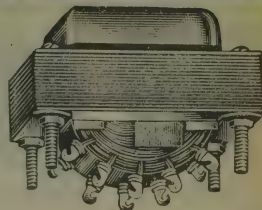
The finest transformers obtainable for replacement purposes and for building radio receivers, public address amplifiers, and other electronic apparatus. The high voltage winding and all filaments, except the rectifier, are center tapped. The representative listing of **KNIGHT** power transformers below makes it easy for you to select the correct transformer for any power supply.

UNIVERSAL TYPE

This is the ideal type for radio servicing. Supplied with four mounting brackets which permit mounting the transformer in any position. Fits almost every radio chassis, making it unnecessary to drill new holes. Permits rapid replacement of practically any burned-out power transformer. Fully shielded type. Has coded leads to provide for simplicity of installation.

HALF-SHELL TYPE

This is the preferred style for building new apparatus. Transformer is mounted in rectangular shape hole. Unshielded portion extends below the chassis, eliminating the danger of shorts and shocks at the soldered terminals. Four corner bolts fasten transformer firmly to chassis. Soldering terminals are tinned for greater ease and speed in soldering leads.



All **KNIGHT** Power Transformers Have 115 Volt 50-60 Cycle Primaries

UNIVERSAL TYPES FOR 6.3 VOLT TUBES

4 TUBE SETS
Plate: 650 V., 40 ma., CT.
Fil.: 5 V., 2 A.; 6.3 V., 1.6 A., CT.
Mtg.: 2x2½". Wt., 2 lbs.
B11600. NET.....88c

6 TO 7 TUBE SETS
Plate: 700 V., 70 ma., CT.
Fil.: 5 V., 3 A.; 6.3 V., 2.5 A., CT.
Mtg.: 2½x2½". Wt., 4 lbs.
B11602. NET.....\$1.38

10 TO 13 TUBE SETS
Plate: 700 V., 120 ma., CT.
Fil.: 5 V., 3 A.; 6.3 V., 4.7 A., CT.
Mtg.: 2½x3½". Wt., 7 lbs.
B11604. NET.....\$2.08

5 TUBE SETS
Plate: 650 V., 40 ma., CT.
Fil.: 5 V., 2 A.; 6.3 V., 2 A., CT.
Mtg.: 2x2½". Wt., 2 lbs.
B11601. NET.....97c

8 TO 10 TUBE SETS
Plate: 700 V., 90 ma., CT.
Fil.: 5 V., 3 A.; 6.3 V., 3.5 A., CT.
Mtg.: 2½x2½". Wt., 6 lbs.
B11603. NET.....\$1.75

FOR 150 MA. USE
Plate: 700 V., 150 ma., CT.
Fil.: 5 V., 3 A.; 6.3 V., 4.7 A., CT.
Mtg.: 2½x3½". Wt., 8 lbs.
B11605. NET.....\$2.15

FOR 2.5 VOLT TUBES

4 TUBE SETS
Plate: 650 V., 45 ma., CT.
Fil.: 5 V., 2 A.; 2.5 V., 3.75 A., CT.
Mtg.: 1½x2½". Wt., 2 lbs.
B11606. NET.....86c

5 TO 6 TUBE SETS
Plate: 650 V., 50 ma., CT.
Fil.: 5 V., 2 A.; 2.5 V., 7 A., CT.
Mtg.: 2x2½". 3 lbs.
B11607. NET.....\$1.12

FOR 8 TO 9 TUBE SETS

Plate: 700 V., 90 ma., center tapped.
Filaments: 5 V., 3 A.; 2.5 V., 12.5 A., center tapped.
Mounting centers: 2½x3½". Shipping weight, 4 lbs.
B11608. NET.....\$1.75

We can repair any burned out or defective power transformer. See page 130 for complete details and attractive price schedule.

HALF-SHELL TYPES FOR 6.3 VOLT TUBES

4 TUBE SETS
Plate: 650 V., 40 ma., CT.
Fil.: 5 V., 2 A.; 6.3 V., 1.6 A., CT.
Mtg.: 2x2½". Wt., 2 lbs.
B11610. NET.....73c

6 TUBE SETS
Plate: 675 V., 50 ma., CT.
Fil.: 5 V., 2 A.; 6.3 V., 2 A., CT.
Mtg.: 2x2½". Wt., 4 lbs.
B11612. NET.....\$1.03

FOR 8 TO 11 TUBE SETS
Plate: 700 V., 100 ma., center tapped.
Fil.: 5 V., 3 A.; 6.3 V., 4 A., CT.; 2.5 V., 4 A., CT.
Mtg. centers: 2½x3½". Shpg. wt., 6 lbs.
B11614. NET.....\$1.98

FOR 2.5 VOLT TUBES

4 TUBE SETS
Plate: 650 V., 40 ma., CT.
Fil.: 5 V., 2 A.; 2.5 V., 3.75 A., CT.
Mtg.: 2x2½". Wt., 2 lbs.
B11615. NET.....71c

6 TUBE SETS
Plate: 675 V., 50 ma., CT.
Fil.: 5 V., 2 A.; 2.5 V., 7.5 A., CT.
Mtg. centers: 2x2½".
Shipping weight: 3 lbs.
B11617. NET.....93c

5 TUBE SETS
Plate: 650 V., 45 ma., CT.
Fil.: 5 V., 2 A.; 2.5 V., 5 A., CT.
Mtg.: 2x2½". Wt., 2 lbs.
B11616. NET.....86c

7 TUBE SETS
Plate: 700 V., 70 ma., CT.
Fil.: 5 V., 3 A.; 2.5 V., 3.5 A., CT.
2.5 V., 7.5 A., CT.
Mtg.: 2½x3½".
Shpg. wt., 4 lbs.
B11618. NET.....\$1.50

FOR 8 TO 10 TUBE SETS

Plate: 700 V., 90 ma., center tapped.
Fil.: 5 V., 3 A.; 2.5 V., 3.5 A., CT.; 2.5 V., 10.5 A., CT.
Mtg. Centers: 2½x3½". Shpg. wt., 4 lbs.
B11619. NET.....\$1.65

KNIGHT FILTER CHOKES



Open-type construction, with leads. For use in any type of receiver. Excellent for servicing and radio building requirements. Size: 1½"x2"x3½". Wt., 1½ lbs.

No.	Henries	M.A.	Ohms	NET
B11650	25	25	850	68c
B11651	25	60	200	65c
B11652	20	80	250	71c
B11653	15	100	160	89c
B11668	7.2	120	290	65c
B11654	750	5	*3500	89c
B11669	300	5	*6470	85c

*Plate coupling choke for detector tube. High impedance at audio frequency.

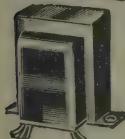
KNIGHT MIKE TRANSFORMERS

OPEN TYPE



For single or double button microphone. Tapped primary. Open frame type. 1½"x1½"x3". Mtg. center, 2½".
B11622. NET.....52c

SHIELDED TYPES



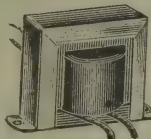
B11623. Single button coupling transformer. Turn ratio, 1 to 64, impedance ratio, 1 to 4000. For single button carbon mike to tube input. Wt., 2 lbs.

B11624. Two button type. To couple any double button carbon microphone to single grid. Turn ratio, 1 to 45; impedance ratio, 1 to 2000. Shpg. wt., 2 lbs.

B11625. Couples dyn. mike, line or mixer to single or P.P. grids. Primary, 50, 200 and 500 ohms. Secondary, 100,000 ohms, CT. Shipping weight, 1½ lbs.
NET EACH.....89c

KNIGHT AUDIO AND OUTPUT TRANSFORMERS

STANDARD AUDIOS



Ideal for replacement purposes. Open type construction. Size: 3¼"x1½"x1¼". Mtg. centers: 2¼". Shpg. wt., 2 lbs. each.

B11647. Ratio 3½-1. Straight audio. 1 plate to 1 grid.

B11648. 3-1. P.P. Input. 1 plate to 2 grids.

B11649. Push-pull interstage transformer. Couples 2 plates to 2 grids.
NET EACH.....71c

SPECIAL AUDIOS

B11656. 3 to 1 ratio. 1½"x1½"x2½". Straight audio. 1 plate to 1 grid. Mtg. ctrs.: 2½". Shpg. wt., 1½ lbs.

B11657. Push-pull input. Open frame type. 3 to 1 ratio. 1½"x1½"x2½". Mtg. ctrs.: 2½". Shpg. wt., 1½ lbs.
NET EACH.....49c

B11663. New "Tiny" 3:1 Audio. 1½" H. x 1½" W. Mtg. ctrs., 2", 1 lb.
NET.....45c

OUTPUT TRANSFORMERS

For 8 to 15 ohm VC. 2" Mtg. centers. Open frame type construction.

B11658. Single 43, 45, 2A3, 6A5, 25A6, 25A7G. 1½"x1½"x1¼". Shpg. wt., 1 lb.

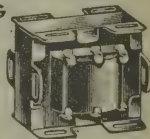
B11659. Single 31, 42, 2A5, 6F6, 6N6, 6A4, 6A6. 1½"x1½"x1¼". Wt., 1 lb.
NET EACH.....39c

B11660. Push-pull 43, 45, 2A3, 6A5, 25A6, 25A7G. 1½"x1½"x1¼". Shpg. wt., 1 lb.

B11661. Push-pull 31, 42, 2A5, 6F6, 6N6, 6A4. 1½"x1½"x1¼". Shpg. wt., 1 lb.
NET EACH.....39c

UNIVERSAL OUTPUTS

UNIVERSAL MOUNTING



B11630. For coupling any tube, single or push-pull, to any magnetic or dynamic speaker. Universal mounting bracket 2" H., 2" W., 2½" mtg. centers. Wt., 2 lbs.
NET.....69c

STRAP MOUNTING TYPE



B11631. 5 Watt. Quality transformers with a convenient mounting strap. Have two screw holes on 2½" centers. With universal primary and secondary. Overall size: 1¾" W., 1½" H. Shpg. wt., 1 lb.
NET.....59c

B11632. 10 Watt. Universal primary and secondary. 2" H., 2" W., 2½" mtg. centers. Shpg. wt., 2 lbs.
NET.....69c

B11633. 15 Watt. Universal primary and secondary. 2½" H., 2¼" W., 3½" mounting centers. Shpg. wt., 2½ lbs.
NET.....85c

UNIVERSAL P.P. INPUTS

To couple any single plate to single or push-pull output tubes. Universal mounting bracket as used on B11630 is incorporated. Size: 2" x 1½" x 2½". Shpg. wt., 2 lbs.
B11646. NET.....69c

UNIVERSAL AUDIOS

B11644. For coupling any tube to single grid. 3 to 1 ratio. Has universal mtg. bracket as used on B11630. Size: 2x1½"x2½". Shpg. wt., 2 lbs. **NET.....69c**

THORDARSON High Quality TRANSFORMERS



FIG. 2-F



FIG. 2-E



FIG. 3-B

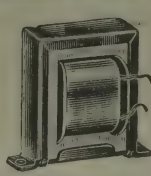


FIG. 2-B

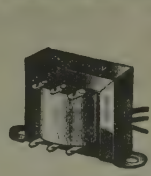


FIG. 3-E



FIG. 2-C



FIG. 2-D

COUPLING TRANSFORMERS

Finest quality Thordarson transformers for almost every input, mixer, or line coupling. Complete essential information is given in the tabulation below. Consult any tube chart for the impedance of the tube or tubes to be used, then select the proper matching transformer. We can supply all other Thordarson transformers. Transformers not listed below can also be shipped promptly. Discount from list, 40/2%. Write for **B11004** Transformer Encyclopedia and Service Guide. **Free.**

TUBE TO LINE OR MIXER (LOW LEVEL)

No.	Type	Fig.	Primary	Secondary	Size Inches	Lbs.	NET
B11038	T14A90	2-F	20,000 CT	500 or 125	2 1/4 x 2 1/4 x 2 3/8	2 1/2	\$1.47
B11039	T14A91	2-F	20,000 CT	200 or 50	2 3/4 x 2 1/8 x 2 3/8	2 1/2	1.47

MIKE, MIXER OR LINE TO GRID

B11056	T58A37	2-F	200 or 50	100,000	2 1/4 x 2 1/8 x 2 3/8	3	\$1.32
B11045	T55A16	2-F	200 or 50	100,000 CT	2 1/8 x 2 1/8 x 2 3/8	3	1.62
B11048	T61A94	2-F	500 or 125	100,000 CT	3 3/8 x 2 1/8 x 3	3	1.91
B11037	T58A78	2-F	100	100,000 CT	2 1/8 x 1 1/8 x 2 3/8	3	1.18
B11057	T14A94	2-B	4 or 8	100,000	2 7/8 x 1 1/4 x 2 3/8	3	1.47

OUTPUT COUPLING TRANSFORMERS

Quality output transformers which meet every radio requirement. First four types have tapped primaries to match any single or P. tube. Others have fixed primaries. Consult any tube chart which lists the output impedance of the tube to be used, then select the proper transformer from the tabulation below. Secondaries are tapped as listed.

B11060	T61525	2-E	Univ. Sing.	500	3 1/8 x 2 1/8 x 3	3 1/2	\$1.91
B11061	T61526	2-E	Univ. P. P.	500	3 3/8 x 2 1/8 x 3	3 1/2	2.06
B12763	T57501	2-E	Univ. Sing.-P.P.	Adj. 1 to 29	2 1/8 x 2 1/8 x 2 3/8	2 1/2	1.18
B11059	T57502	2-E	Univ.-Sing.-P.P.	Adj. 1 to 29	2 1/8 x 2 1/8 x 2 3/8	2 1/2	1.18
B11063	T67554	2-F	5,000	4-8-15-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.35
B11064	T67548	2-F	8,000	4-8-15-500	3 3/8 x 2 1/8 x 3	3 1/2	2.06
B11065	T67552	2-F	5,800	4-8-15-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.35
B11066	T67592	2-F	1,500	4-8-15-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.35
B11070	T67551	2-F	14,000	4-8-15-500	3 3/8 x 2 1/8 x 3	3 1/2	2.06
B11071	T65594	2-F	8,000	4-8-15-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.35
B11072	T75575	2-F	10,000	4-8-15-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.35
B11092	T81501	2-B	10,000	2-4-8	2 3/8 x 1 1/8 x 2	2	1.38
B11073	T84558	2-G	3,800	4-8-15-500	3 1/8 x 3 3/8 x 4 5/8	7	3.53
B11068	T89575	2-F	6,600	4-8-15-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.35
B11069	T89574	2-F	4,000	4-8-15-500	3 3/8 x 2 1/8 x 3	3 1/2	2.20
B12789	T89568	2-G	3,300	50 to 500	3 3/8 x 3 1/8 x 4 5/8	7	3.82
B12770	T71510	2-F	2,500	2-4-8-500	3 3/8 x 2 1/8 x 3	3 1/2	1.76
B12771	T71511	2-F	8,000*	4-8-15-250-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.65
B12772	T71512	2-F	4,300*	4-8-15-250-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.65
B12773	T71513	2-G	6,600*	4-8-15-250-500	3 1/8 x 3 3/8 x 4 5/8	7	3.53
B12774	T71514	2-G	5,500*	4-8-15-250-500	3 1/8 x 3 1/8 x 3 1/2	4 1/2	2.65
B12775	T71515	2-G	3,300*	4-8-15-250-500	3 3/8 x 3 1/8 x 4 5/8	7	3.82
B12791	T14583	3-B	25,000 CT	3 to 6	2 7/8 x 1 1/8 x 1 1/8	1 1/2	.73
B12792	T14584	3-B	8,000	3 to 6	2 7/8 x 1 1/8 x 1 1/8	1 1/2	.73
B12793	T14582	3-B	1,500	3 to 6	2 7/8 x 1 1/8 x 1 1/8	1 1/2	.73
B12794	T14581	3-B	7,000 CT	3 to 6	2 7/8 x 1 1/8 x 1 1/8	1 1/2	.73

*Has third winding for obtaining 10% inverse feed-back.

LINE TO SPEAKER VOICE COIL

B12776	T60548	2-E	500 to 3000	Univ. V. C.	3 3/8 x 2 1/8 x 3	3*	\$1.76
B12777	T14580	2-E	500	2-4-6-8	2 7/8 x 2 1/8 x 2 1/4	2 1/2	1.18
B12778	T67574	2-E	500	84 to 250	3 3/8 x 2 1/8 x 2 1/4	3 1/2	1.76
B12779	T53581	2-D	500 or 250	4-8 or 15	2 7/8 x 2 1/8 x 3 1/8	4 1/2	2.35
B12795	T17517	2-C	500	4-8-16-25-50	3 3/8 x 3 3/8	8	3.82
B12788	T71518	2-D	500 to 3000	.06 to .8 or .12 to .16	3 3/8 x 2 1/8 x 2 1/4	3	2.06

CLASS "B" and "AB" DRIVERS

Quality driver transformers. Have correct primary-to-secondary ratio, providing good regulation and minimum driver distortion on positive grid peaks. For use with the tubes listed below or tubes having similar input, and output impedances.

B12780	T67D50	2-F	1-89 Triode	1-79 Class "B"	2 1/4 x 2 1/8 x 2 3/8	1 1/2	\$1.47
B12781	T67D47	2-F	1-6N7, 6A6, 53	1-6N7 or 53 "B"	2 1/4 x 2 1/8 x 2 3/8	1 1/2	1.47
B12782	T67D78	2-F	1-46, 59, 6F6	2-46 or 59 "B"	3 3/8 x 2 1/8 x 3	3	1.76
B12783	T81D42	2-F	1-6F6, 42, 2A5	2-6F6, or 42 "AB2"	3 3/8 x 2 1/8 x 3	2 1/2	1.91
B12784	T84D59	2-F	2-6C5, 6N7*	2-6L6 or 6V6 "AB2"	3 3/8 x 2 1/8 x 3	2 1/2	1.91
B12796	T17D03	2-F	1-6F6 Triode*	2-6L6 "AB2"	3 1/8 x 3 1/8 x 3 1/2	3 1/2	2.65
B12797	T17D04	2-F	2-6F6*	4-6L6 "AB2"	3 1/8 x 3 1/8 x 3 1/2	3 1/2	2.65
B12798	T81D52	2-F	1-6C5, 76	2-6F6, 2-42, "AB"	3 3/8 x 2 1/8 x 3	2 1/2	1.91
B12799	T14D93	3-B	1-76 Triode	1-6A6, 6N7 "B"	2 1/8 x 1 1/8 x 1 1/8	3/4	1.03
B12785	T78D46	2-F	1-30	1-1J6C, 2-30	2 3/8 x 1 1/8 x 1 1/8	3/4	1.03
B12786	T74D32	2-F	2-6C5, 76, 56	2-6F6 "AB2"	2 3/8 x 1 1/8 x 2	3/4	.88
				4-6B4G "AB"	3 3/8 x 2 1/8 x 3	2 1/2	1.91

*Has split secondary for inverse feed-back.

TRANSCEIVER AUDIOS

B11090	T54D63	2-F	20,000	1-19 or 2-49 "B"	2 7/8 x 1 1/8 x 2 3/8	1 1/4	\$1.32
B11092	T81501	2-F	10,000	2-4-8	2 7/8 x 1 1/8 x 2	3/4	.88
B11093	T68506	2-B	7,000	10 or 2,000	2 1/4 x 1 1/8 x 2 3/8	1	1.47
B11094	T72558	2-B	10,000	2,000-50	2 7/8 x 1 1/8 x 2	3/4	.97
B11095	T72A59	2-B	5,000-200	10,000	2 7/8 x 1 1/8 x 2	3/4	.97

FILTER CHOKES

For all radio requirements. Inductance ratings given below are for actual operating conditions. 1600-volt insulation.

B12750, T18C92, Fig. 3-B.	22 hys., 35 ma., 405 ohms.	3 3/8 x 2 x 2".	Wt., 2 1/2 lbs.	NET	88c.
B12751, T47C07, Fig. 3-B.	12 hys., 75 ma., 410 ohms.	3 3/8 x 1 1/8 x 2 1/4".	Wt., 2 1/4 lbs.	NET	97c.
B12752, T68C07, Fig. 2-B.	15 hys., 85 ma., 375 ohms.	3 3/8 x 2 1/8 x 3".	Wt., 3 lbs.	NET	\$1.18
B12753, T57C53, Fig. 2-B.	10 hys., 110 ma., 200 ohms.	3 3/8 x 2 1/8 x 3".	Wt., 3 1/4 lbs.	NET	\$1.18
B12754, T57C54, Fig. 2-F.	10 hys., 110 ma., 200 ohms.	3 3/8 x 2 1/8 x 3".	Wt., 3 1/4 lbs.	NET	\$1.32
B12755, T17C00-B, Fig. 2-F.	12 hys., 150 ma., 231 ohms.	3 1/8 x 3 1/8 x 3 1/2".	Wt., 4 1/4 lbs.	NET	\$1.62
B12756, T13C26, Fig. 3-B.	8 hys., 40 ma., 530 ohms.	2 3/8 x 1 1/8 x 1 1/8".	Wt., 1 1/2 lbs.	NET	53c.
B12757, T13C27, Fig. 3-B.	10 hys., 40 ma., 475 ohms.	2 1/8 x 1 1/8 x 1 1/8".	Wt., 1 1/4 lbs.	NET	65c.
B12758, T13C28, Fig. 3-B.	10 hys., 65 ma., 460 ohms.	3 x 1 1/4 x 2".	Wt., 2 lbs.	NET	71c.
B12759, T13C29, Fig. 3-B.	9 hys., 85 ma., 250 ohms.	3 3/8 x 2 x 2".	Wt., 2 1/2 lbs.	NET	94c.
B12760, T75C49, Fig. 3-B.	8 hys., 120 ma., 290 ohms.	3 3/8 x 2 x 2".	Wt., 2 1/2 lbs.	NET	88c.
B12761, T13C30, Fig. 2-B.	8 hys., 150 ma., 200 ohms.	3 3/8 x 2 1/8 x 3".	Wt., 3 1/4 lbs.	NET	\$1.18
B12762, T67C49, Fig. 2-F.	5 hys., 200 ma., 80 ohms.	3 1/8 x 3 1/8 x 3 1/2".	Wt., 3 3/4 lbs.	NET	\$1.62
B12744, T16C07, Fig. 2-F.	15 hys., 85 ma., 375 ohms.	3 3/8 x 2 1/8 x 3".	Wt., 3 1/4 lbs.	NET	\$1.32
B12745, T44C02, Fig. 3-B.	12 hys., 80 ma., 405 ohms.	3 3/8 x 2 x 2".	Wt., 1 1/4 lbs.	NET	88c.
B12746, T53C19, Fig. 2-B.	8 hys., 120 ma., 290 ohms.	2 7/8 x 2 x 2 1/8".	Wt., 1 1/4 lbs.	NET	88c.
B12747, T57C51, Fig. 2-B.	6 hys., 80 ma., 138 ohms.	2 7/8 x 2 x 2 1/8".	Wt., 1 1/4 lbs.	NET	88c.
B12748, T75C51, Fig. 2-G.	13 hys., 250 ma., 121 ohms.	3 3/8 x 3 1/8 x 4 1/8".	Wt., 8 lbs.	NET	\$2.94

PLATE COUPLING CHOKES

Used in the finest impedance coupled amplifiers. †For use in circuit with Thordarson tone control R-1068 (Net \$1.47) *For use as plate inductance with S. G. tubes. Max. Cap., 8 ma.

B11145, T29C27, Fig. 2-B.	5* ma., 700 hys., 6150 ohms.	2 1/8 x 1 1/8 x 2 3/8".	Wt., 2 lbs.	NET	88c.
B11146, T52C98, Fig. 2-F.	5* ma., 700 hys., 6150 ohms.	2 7/8 x 1 1/8 x 2 3/8".	Wt., 2 1/4 lbs.	NET	\$1.03
B11147, T37C36, Fig. 2-F.	5 ma., 300 hys., 6470 ohms.	2 7/8 x 2 1/8 x 2 3/8".	Wt., 2 1/2 lbs.	NET	\$1.18
B11148, T67C46, Fig. 2-B.	5 ma., 300 hys., 6470 ohms.	2 7/8 x 2 1/8 x 2 3/8".	Wt., 2 1/4 lbs.	NET	\$1.03
B11143, T68C08, Fig. 2-F.	35 ma., 22 hys., 405 ohms.	2 3/8 x 2 1/8 x 2 3/8".	Wt., 2 1/2 lbs.	NET	\$1.03
B11144, T14C70, †0 ma., 22 hys., 220 ohms.	1 3/8 x 1 1/8 x 2 1/4".	Wt., 1/2 lb.	NET	\$1.47	
B11142, T74C30, Fig. 2-B.	15 ma., 42 hys., 2100 ohms.	2 x 1 1/8 x 2 3/8".	Wt., 1 lb.	NET	88c.
B11141, T93C20, Fig. 2-B.	5* ma., 250 hys., 6400 ohms.	2 7/8 x 2 x 2 3/8".	Wt., 1 1/4 lbs.	NET	\$1.76

THORDARSON High Quality TRANSFORMERS

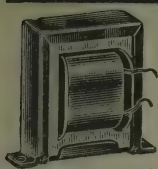


FIG. 2-B



FIG. 2-E

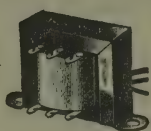


FIG. 3-E

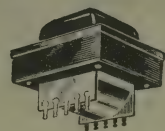
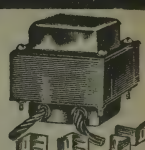


FIG. 2-H



FIG. 2-G



Universal Power

OUTPUT TRANSFORMERS UNIVERSAL TYPES

For .1 to 29 ohm voice coils. T13S42 and T13S41 are for heavy-duty power tubes drawing up to 60 MA. Will match any speaker load to output tube. Cover a majority of receiver output coupling requirements.

B12763. Type T57S01, Fig. 2-E. For single or P. P. tubes. Size, $2\frac{1}{2}'' \times 2'' \times 2\frac{1}{2}''$. Shpg. wt., $2\frac{1}{2}$ lbs. **NET EACH... \$1.18**

B12764. Type T13S38, Fig. 3-E. For single or P. P. tubes. Size, $2\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$. Shpg. wt., $1\frac{1}{2}$ lbs. **NET EACH... 88c**

B12765. Type T13S42, Fig. 3-E. For single output tube. Size, $2\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$. Shpg. wt., $1\frac{1}{2}$ lbs. **NET EACH... 88c**

B12766. Type T13S41, Fig. 2-E. For push-pull tubes. Size, $3\frac{1}{2}'' \times 2\frac{1}{2}'' \times 3\frac{1}{2}''$. Shpg. wt., $2\frac{1}{2}$ lbs. **NET EACH... \$1.62**

For 6 to 12 Ohm Voice Coils

B12767. Type T13S39, Fig. 2-B. For 2-4S, 71, 43, 25A6 P. P. etc. Size, $2\frac{1}{2}'' \times 2'' \times 2\frac{1}{2}''$. Shpg. wt., $2\frac{1}{2}$ lbs. **NET EACH... 88c**

For 1, 2, and 4 Ohm Voice Coils

B12768. Type T13S37, Fig. 3-E. For 1-6F6, 42, 2A5, 47, etc. Size, $2\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$. Shpg. wt., $1\frac{1}{2}$ lbs. **NET EACH... 73c**

B12769. Type T13S39, Fig. 3-E. For 1-4S, 12A5, 43, 71A, etc. Size, $2\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$. Shpg. wt., $1\frac{1}{2}$ lbs. **NET EACH... 73c**

B11149. Type T13S43, Fig. 3-E. For 1-1F4, 1T5, 1F5G. Size, $2\frac{1}{2}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$. Shpg. wt., $1\frac{1}{2}$ lbs. **NET EACH... 79c**

"CHT" TRANSFORMERS



Ideal for use in receivers, transmitters, etc., or wherever quality of components is an important factor. Designed for varying climatic conditions. Listing below is representative. We can supply all C.H.T. type transformers and amplifier chokes from stock.

No.	Type	NET	No.	Type	NET
B12710	T15A66	\$4.26	B12721	T15D87	\$6.47
B12711	T15A67	4.70	B12722	T15D85	4.41
B12712	T15A68	4.70	B12723	T15D86	4.41
B12713	T15A69	4.26	B12680	T15R04	2.79
B12714	T15A70	4.41	B12681	T15R05	6.17
B12715	T15A71	4.26	B12682	T15R06	5.73
B12716	T15A72	4.26	B12683	T15R07	6.17
B12717	T15A73	3.82	B12684	T15R08	8.08
B12718	T15A74	3.82	B12724	T15S90	5.44
B12719	T15A75	4.12	B12725	T15S91	6.76
B12720	T15A65	6.17	B12726	T15S92	8.08
B12699	T15C52	2.94	B12727	T15S93	8.82
B12698	T15C53	3.23	B12728	T15S94	10.29
B12731	T15C54	3.23	B12729	T15S96	6.47

FREE TRANSFORMER SERVICE GUIDE



Newly published Thordarson manual. Contains all information required for testing or replacing transformers in radios or amplifiers. Gives practical solutions to everyday service problems. Many useful charts and tables. Sets listed by make and model for easy reference. **B11004. FREE.**

SOUND AMPLIFIER GUIDE



Contains a world of information on audio action of metal and glass tube circuits and amplifiers. Explains advantages of inverse feedback; covers pre-amplifiers, mixers, and dual tone control. Also includes technical data, wiring diagrams, and parts lists on all types of amplifiers up to giant 120 watt unit. **B11001. NET... 9c**

UNIVERSAL DUPLICATE POWER TRANSFORMERS

A complete line designed to meet the requirements of every Serviceman and Set Builder. Illustrated at right above. For 110 volts, 50-60 cycles; center-tapped plate winding. Ask for **B11002**. Write for prices on other voltages and frequencies. **Free, Thordarson 400E Catalog.**

Cat. No.	Mfr.'s Type	Plate		Fil. 1		Fil. 2		Fil. 3		Size Inches			NET
		Volts	Mils.	V	A	V	A	V	A	H	W	D	
B11223	T13R01	650	40	2.5	4	...	...	5	3	3	2 1/2	2 3/4	\$1.62
B11224	T13R02	700	50	2.5	7.25	...	...	5	3	3	2 1/2	2 1/4	2.06
B11225	T13R03	700	70	2.5	9	...	...	5	3	3 3/4	2 1/2	2 3/4	2.20
B11226	T13R04	700	100	2.5	12.5	...	...	5	3	3 3/4	3 3/4	3 3/4	2.50
B11227	T13R05	700	70	2.5	9	2.5	3.5	5	3	3 3/4	3 3/4	3 1/2	2.35
B11228	T13R06	700	120	2.5	12.5	2.5	3.5	5	3	4 1/2	3 3/4	3 3/4	3.09
B11229	T13R07	800	110	2.5	15	2.5	3.5	5	3	4 1/2	3 3/4	3 1/2	3.23
B11230	T13R08	700	90	6.3	3.3	2.5	6	5	3	4 1/2	3 3/4	3 1/2	2.63
B11231	T13R09	750	180	6.3	3.3	2.5	6	5	3	4 1/2	3 3/4	3 1/2	3.67
B11232	T13R00	550	70	5	5	2.5	10.5	5	3	3 3/4	2 1/2	2 3/4	2.50
B11233	T13R11	580	50	6.3	2	...	...	5	3	3	2 1/2	2 3/4	1.62
B11234	T13R12	700	70	6.3	2.5	...	...	5	3	3	2 1/2	2 3/4	2.06
B11250	T13R13	700	90	6.3	3.3	...	...	5	3	3 3/4	3 3/4	3 3/4	2.35
B11251	T13R14	700	120	6.3	4.7	...	...	5	3	3 3/4	3 3/4	3 3/4	2.50
B11252	T13R15	750	150	6.3	5	...	...	5	3	4 1/2	3 3/4	3 3/4	3.38
B11253	T13R16	800	200	6.3	5.14	...	...	5	3	4 1/2	3 3/4	3 1/2	3.67
B11254	T13R17	600	60	6.3	2.5	2.5	7.5	5	3	3 3/4	2 1/2	2 3/4	2.35
B11255	T13R18	700	90	6.3-2.5	3.5	2.5	9	5	3	4 1/2	3 3/4	3 1/2	2.65
B11210	T13R19	480	40	6.3	2	...	...	5	2	3	2 1/2	2 1/2	1.47

GENERAL-PURPOSE POWER TRANSFORMERS

A carefully selected listing of general-purpose power transformers. Only the finest materials are used in their construction. Choice of three types shown. All listings 110 volt, 50-60 cycles; center-tapped plate winding. Add 60% for 25 cycles; 30% for 220 volts. (Include deposit with order.) Typical Thordarson quality is built into each one of these sturdy units to assure perfect performance, long life, and dependable service. Average wt., 8 lbs.

Cat. No.	Mfr.'s Type	Fig.	Plate		Fil. 1		Fil. 2		Fil. 3		Size Inches			NET
			Volts	Mils.	V	A	V	A	V	A	W	D	H	
B11014	T60R49	2H	560	30	2.5	3.5	5	2	...	...	2 1/2	1 1/2	2 1/2	\$1.32
B11040	T70R20	2H	600	50	6.3	2	5	2	...	...	2 1/2	1 1/2	2 1/2	1.62
B11015	T75R47	2H	610	125	6.3	2	5	2	...	...	3 3/4	3 1/2	2 1/2	2.35
B11016	T70R78	2G	680	55	6.3	1.5	5	2	...	...	3 3/4	2 1/2	2 1/2	1.91
B11017	T70R61	2G	770	70	6.3	2.5	5	2	...	...	3 1/2	2 1/2	2 1/2	2.35
B11019	T56R01	2G	650	70	1.5	1	1.5	4	2.5	3	3 1/2	3 3/4	4 3/8	3.23
B11020	T56R03	2G	700	105	5.0	3	2.5	3	1.5	5	3 1/2	3 3/4	4 3/8	3.53
B11021	T70R62	2G	700	145	6.3	4.5	2.5	1.75	1.5	1	3 1/2	3 3/4	4 1/2	3.53
B11022	T56R05	2G	700	110	2.5	9	2.5	3	2.5	3	3 1/2	3 3/4	4 1/2	3.23
B11024	T92R21	2G	800	200	6.3	5	5	3	...	...	3 3/4	3 1/2	4 1/2	3.53
B11026	T74R28*	2G	880	125	6.3	3.3	5	3	2.5	3	3 3/4	3 1/2	4 1/2	4.41
B11031	T17R30	2G	740	280	6.3	7	5	3	...	...	3 3/4	3 1/2	4 1/2	3.82
B11032	T17R31	2G	860	325	6.3	8	5	6	...	...	3 3/4	3 1/2	4 1/2	5.00
B11033	T70R21	2H	600	70	6.3	3	5	2	2.5	4	3 3/4	3 1/2	4 1/2	7.35
B11034	T75R50†	2G	870	250	5	3	6.3	1.5	2.5	10	3 3/4	3 1/2	4 1/2	2.06
					2.5	3					3 3/4	4 1/4	4 1/2	4.41

*Has 38 volt bias tap. †Has 80 volt bias tap.

STRAIGHT AUDIO TRANSFORMERS

Famous Thordarson transformers listed below are supplied in a variety of mountings (as illustrated above and on page 128) for replacement work. Fig. 2-C type offers two methods of mounting for universal application. If the transformer you need is not listed, send order with deposit and we will supply correct unit promptly. Net price is 40/2% from Thordarson list price.

Cat. No.	Type	Fig.	Ratio	Size Inches	Mtg. Centers	Shpg. Wt.	NET
B11121	T47A25	2-C	3:1	2 x 1 1/2 x 2 1/2	1 1/2"	2	\$1.03
B11122	T29A99	2-B	3:1	2 1/4 x 2 1/2	2 1/2"	2 1/4	1.03
B11123	T57A36	2-F	3:1	2 1/4 x 2 1/2 x 2 1/2	2 1/2"	2 1/2	1.18
B11125	T57A38	2-F	3:1	3 3/4 x 2 1/2 x 3	2 1/2"	3 1/4	1.62
B11127	T75A74*	2-F	2:1	2 1/4 x 2 1/2 x 2 1/2	2 1/2"	2 1/2	1.47
B11120	T17A02†	2-F	3:1	2 1/4 x 2 1/2 x 2 1/2	2 1/2"	3 1/4	1.32
B11124	T13A34	3-B	3:1	3 1/2 x 1 1/2 x 1 1/2	2 1/2"	3/4	.79

*Has static shield between primary and secondary windings.

†For either straight or push-pull use.

PUSH-PULL INPUT AND INTERSTAGE TRANSFORMERS

These Thordarson units serve similar applications, varying in size, impedance ratios, and style of mounting. All carry regular Thordarson guarantee. Individually packed with proper hook-up diagram. Frequency response is $\pm 1\frac{1}{2}$ db. from 60 to 8000 CPS.

Cat. No.	Type	Fig.	Ratio	Size Inches	Mtg. Centers	Shpg. Wt.	NET
B11128	T14A29	2-C	3:1	2 x 1 1/2 x 2 3/8	1 1/2"	2 1/4	\$1.32
B11129	T33A91	2-B	3:1	2 1/4 x 2 x 2 3/8	2 1/2"	2 1/4	1.18
B11130	T57A39	2-F	3:1	2 1/4 x 2 1/2 x 2 3/8	2 1/2"	2 1/2	1.32
B11131	T57A40	2-B	3:1	3 3/4 x 2 1/2 x 3	2 1/2"	3	1.62
B11132	T57A41	2-F	3:1	3 3/4 x 2 1/2 x 3	2 1/2"	3 1/2	1.76
B11133	T57A42	2-B	3:1	3 3/4 x 2 1/2 x 3	2 1/2"	2	1.91
B11137	T58A70*	2-F	1.5:1	3 3/4 x 2 1/2 x 3	2 1/2"	3 1/4	1.91
B11136	T13A36	3-B	1:1	3 x 1 1/2 x 2	2 1/2"	2	1.18
B11139	T14A92	3-B	3:1	2 1/4 x 1 1/2 x 1 1/2	2 1/2"	1 1/2	.73
B11138	T13A35	3-B	3:1	2 1/4 x 1 1/2 x 1 1/2	2 1/2"	2 1/4	.88
B11140	T74A31	2-F	1:1	3 3/4 x 2 1/2 x 3	2 1/2"	2 1/4	1.91

*Primary rated at 10 ma. Others have 8 ma. primary ratings.

SPECIAL TRANSFORMERS

KNIGHT TUBE TESTER MODERNIZER KIT



Don't junk your old tube tester! Now—at an exceptionally low expense—you can bring it up to date to test all new high-voltage filament tubes. This new and ingenious

Knigh modernizer kit provides the following filament voltages: 25—30—35—50—70—85—117. Only two wires connect to tube checker. Amphenol voltage selector switch mounts on panel or in spare socket hole. Transformer, $3\frac{1}{4}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}''$, mounts under panel or in tool compartment. Instructions supplied. For 105-117 volts, 60 cycle. Wt., 1 lb. **B11680. NET. \$1.39**

TUBE CHECKER TRANSFORMER

For building or modernizing tube checkers. Provides the following voltages: $1\frac{1}{2}$, 2, 2.5, 3, 5, 6.3, 7.5, 12.5, 25, 30, 35, 50, 70, 85, 117. Size: $3\frac{1}{4}'' \times 2\frac{1}{4}'' \times 2\frac{1}{4}''$. Operates from 105-117 volts, 50-60 cycle. Wt., 2 lbs. **B11681. NET. \$1.35**

KNIGHT AC-DC CHOKES

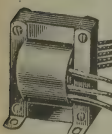


For any 4 or 5 tube midget. Semi-shielded. Rated at 15 Hy. at 40 ma. Horizontal mounting, 6" insulated leads. Size: $1\frac{1}{2}''$ high, $2\frac{1}{4}''$ long. $1\frac{1}{4}''$ dees Mtg. centers, $2\frac{1}{4}''$. Average shpg. wt., 3 lbs.

No.	Ohms	No.	Ohms
B11635	200	B11639	400
B11636	250	B11640	450
B11637	300	B11641	500
B11638	350	B11642	550

NET EACH. 29¢

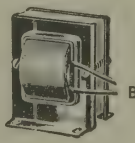
KNIGHT AUTO RADIO VIBRATOR TRANSFORMER



A newly developed compact transformer designed to meet the demand for a high-grade replacement transformer for auto radio vibrators. Delivers 250 volts at 50 ma. in conjunction with any standard vibrator. Upright type, $3\frac{1}{2}''$ high, mtg. centers, $2\frac{1}{4}'' \times 1\frac{1}{4}''$. This **Knigh** transformer is a quality-built, conservatively

rated unit offered to you at a "bargain-price." Shipping weight, 3 lbs. **B11671. NET. 99¢**

THORDARSON 6 VOLT VIBRATOR TRANSFORMERS



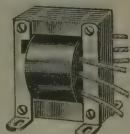
For almost all auto and battery operated home radios. Supplied with mounting feet or may be used with original mounting brackets. Ideal either for replacement purposes or for use in original or experimental equipment. Thordarson quality construction for dependable, long-life operation. All are open type illustrated by Fig. B, except type T14R38 which is supplied with case (Fig. A). Av. shpg. wt., 5 lbs.

No.	Type	DCVolts	Ma.	NET
B12735	T14R33	225	40	\$1.62
B12736	T14R34	250	50	1.91
B12737	T14R35	260	60	2.20
B12738	T14R36	280	75	2.50
B12739	T14R37	320	75	2.79
B12741	T14R38	350	100	3.09
B12743	T14R39	150	40	1.62

FOR 115 VOLT 50-60 CYCLE AND 6 VOLTS DC

Type T-14R40. For replacement and building radio receivers and amplifiers to operate from both 6 volt batteries and 110 volt 50-60 cycle current. In case (Fig. A), 350 volts DC, at 135 ma.; and 6.3 C.T., at 4.75 amps. Size: $3\frac{1}{4}'' \times 4'' \times 4\frac{1}{2}''$. Shpg. wt., 10 lbs. **B12740. NET. \$3.97**

KNIGHT 6.3 VOLT FILAMENT TRANSFORMER



Designed primarily for use with low power S.W. transmitters and receivers. Convenient strap-mounting style. Can be used for test bench voltage source, bell-ringing circuits, experimental setups in schools, etc. Will withstand normal overloads without harm. Rated at 6.3 V., 1.5 amperes secondary. Primary, 115 V., 60 cycles. With coded 6' leads and wiring guide. Mtg. centers $2\frac{1}{4}''$. Shpg. wt., 2 lbs.

B11666. NET. 59¢

2.5 VOLT FILAMENT TRANSFORMER

Similar to above, but supplies 2.5 volts at 3 amps. for continuous service. For heating filaments of 2.5 volt tubes, or for operating bells, relays and any other device which requires 2.5 volts of AC current. Primary, 115 V., 60 cycles. Size: $1\frac{1}{2}''$ V., 2" H. Mtg. centers, $2\frac{1}{4}''$. Shpg. wt., 2 lbs.

B11664. NET. 59¢

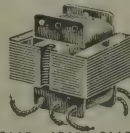
MIDGET UNIVERSAL OUTPUT TRANSFORMER



Compact output transformer for matching impedance of any tube, either single or push-pull. Tapped secondary matches any voice coil from 2 to 30 ohms. Used extensively for small midgets, portables, and other compact apparatus. Size only $1\frac{1}{2}''$ high, $2\frac{1}{2}''$ long, $1\frac{1}{2}''$ wide. Easily mounted on radio chassis or directly on speaker frame. With instructions. Shpg. wt., 1 lb.

B11662. NET. 49¢

KNIGHT 250 VOLT PLATE TRANSFORMER



Supplies "B" voltages for receivers with tube filaments hooked in series across power line. Also used for building "B" eliminators. Sec. total is 525 volt, C.T. at 60 ma. Primary, 115 V., 60 cycle. Size $2\frac{1}{4}'' \times 1\frac{1}{2}'' \times 2\frac{1}{4}''$. Complete with strap mounting bracket (not illustrated); mtg. centers, $2\frac{1}{4}''$. Wt., 1 lb.

B11280. NET. 75¢

STANCOR MIKE TRANSFORMERS



Quality transformers for connecting carbon button microphones. Carefully constructed of quality materials. Supplied with wiring instructions.

B12945. Type A4705. Fig. A. For single button carbon mike to single grid. Primary, 200 ohms at 25 ma. Sec., 80,000 ohms. Size: $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times 2\frac{1}{2}''$. Shpg. wt., 1 lb. **59¢**

B12946. Type A4708. Fig. B. For double button carbon mike to single grid. Primary, 200 ohms C.T. Sec., 57,000 ohms. Size: $1\frac{1}{2}'' \times 2\frac{1}{2}'' \times 2\frac{1}{2}''$. Shpg. wt., 1 lb. **\$1.03**

B12947. Type A4351. For single or double button mike or line to single grid. Primary, 50, 125, 200, 333 and 500 ohms. Sec., 89,000 ohms. Shielded. Shpg. wt., 2 lbs. **\$1.23**

NET.

ANY POWER TRANSFORMER REBUILT LIKE NEW

Special rebuilding service for any type transformer used in radio, diathermy, battery chargers, neon signs, amateur apparatus, etc. Original case and laminations are used. Finished unit identical in size and appearance to original. Send in old transformer with a \$2.00 deposit. Include all available information such as voltage and current, use, etc. Send in defective transformer prepaid and we will pay the return postage. If transformer is for radio use, please specify make, model and tube lineup of radio. Add \$1.25 for wax or pitch filled units. 25 cycle transformers are approximately 20% higher. All work is expertly done; original specifications are exactly duplicated. Following is dealer's price schedule for rebuilding radio set and P. A. power transformers.

TRANSFORMER REBUILDING PRICE SCHEDULE

No. of Tubes	Power Tubes Used	PLAIN	IN PITCH
4 to 7	One: 6A3, 6A6, 6B5, 41, 42, 6F6.	\$2.85	\$4.10
6 to 10	Two: 6A3, 6A6, 6B5, 41, 42, 6F6.	3.85	5.10
6 to 8	One: 45, 47, 59, 2A5, 2A3, 53.	3.85	5.10
6 to 9	Two: 45, 47, 59, 2A5, 2A3, 53.	4.15	5.40
8 to 10	One: 50, 10 or 6L6.	4.95	6.20
8 to 10	Two: 50, 10 or 6L6.	5.95	7.20

KNIGHT STEP-DOWN TRANSFORMER



An entirely new step-down transformer with 150 watt capacity. Equipped with new Amphenol tap switch for switching to prevailing input voltage. Has six primary taps: 90, 100, 120, 200, 230 & 250 volts. Secondary: 115 V. at 1.3 amperes, 50/60 cycles. Handy female receptacle is mounted on side. Supplied with a rubber cord, terminating in a standard power plug. Especially designed for operating 110 volt radio receivers, amplifiers, and small electrical appliances from higher voltages. Shpg. wt., 12 lbs. **B11665. NET. \$3.45**

ACME TRANSFORMERS

STEP-DOWN TYPE



Will reduce line voltage of 200-240 volts, 50-60 cycles, to 100-120 volts for operating radios, amplifiers, appliances, etc. Will safely handle any device consuming up to 200 watts. With 8 foot cord, plug, and output receptacle. Wt., 8 lbs. **B11265. NET. \$3.95**

VARIABLE VOLTAGE ADJUSTER



Maintains proper operating voltage under varying line conditions. Allows step-up or step-down action. Primary tapped 85-100-115-130-145 volts; sec. 115 volts. With voltmeter. For 50-60 cycle, A.C.

B11266. Capacity 150 Watts. Shpg. wt., 7 lbs. NET. \$ 6.75

B11268. Capacity 350 Watts. Shpg. wt., 11 lbs. NET. 11.76

B11269. Capacity 500 Watts. Shpg. wt., 14 lbs. NET. 12.94

BELL-RINGING TRANSFORMER



Jefferson transformer for operating bells, buzzers, door openers, annunciators and as experimental 10 V. source. Secondary has binding posts; 10 V. at 5 amps. Primary has insulated leads for connecting to 110 V. 50-60 cycle current. Size, $2\frac{1}{2}'' \times 2\frac{1}{2}''$. Wt., $1\frac{1}{2}$ lbs.

B6033. NET. 58¢

SET-TESTING AUTOFORMER



Just what every Service-man needs to test potential failure in set. This switch allows servicemen to overload set being tested at the shop, thus discovering defective parts which were about ready to pop. Provided with 7-tap switch to supply 90, 100, 110, 120, 130, 140 and 150 volts at 150 watts. About 90% of those pesky "Intermittents" can be spotted immediately. Primary is designed for 115 volts 50-60 cycle AC operation. Female plug provided in transformer shell for AC plug of receiver. Shpg. wt., 8 lbs.

B11667. NET. \$3.25

STANCOR TRANSFORMERS



EXACT DUPLICATE POWER

TRANSFORMERS

Popular transformers below are only a selection of those available. For units not listed, give name, model no., and tube lineup of set, or select from Stancor Guide. We ship from local stock. Discount is 40/2% from Stancor list.

Models	No.	Lbs.	NET
CROSLEY			
505, 515, 516, 525...	B11501	2	\$1.91
534, 635, 655...	B11502	2 1/2	2.12
517, 537, 547...	B11593	2	2.20
526, 616, 555...	B11594	2	2.23
GEN. ELECTRIC			
E-61, E-62, E-68...	B11596	5	2.50
E-105, E-106, E-101...	B11506	6 1/2	3.38
A-82, A-86, A-87...	B11530	7 1/2	3.53
K-43, M-42, M-49...	B11529	3	1.76
KNIGHT			
SG8...	B11534	14	4.20
MAJESTIC			
70 chassis (plate)...	B11552	6	2.65
90B & 100B chassis...	B11555	12	3.76
PHILCO			
70, 270, 370, 470, 570...	B11570	6 1/2	3.67
95, 96, 296...	B11578	8 1/2	3.53
80, 81, 82, 83, 84...	B11564	4	1.91
37-60, 37-61, 37-89, 37-610, 37-620, 37-2620, 38-60, 38-89...	B11509	5 1/2	2.65
44, 60, 66, 89, 264, 265...	B11562	4 1/2	2.06
29, 630, 635...	B11512	6 1/2	3.09
43, 245...	B11508	4	2.50
38-12 (21)...	B11520	4	1.76
90, 90A (47), 490...	B11511	8 1/2	3.53
RCA-VICTOR			
5T, 6K1, 6T5, 5T4, 5U, 85T5, 85T, 85T1, U-101, U-103...	B11522	6	2.23
R32, R52, RE45...	B11586	8 1/2	4.70
R4, R6...	B11587	5 1/2	2.70
R7, R9, RE16...	B11589	6	2.79
R7A, RE16A...	B11590	6	2.79
R11, RE18, R21, RAE26...	B11515	9	2.65
RAE68, RAD80, 82, 86, 82R, 86R...	B11516	8 1/2	3.65
RAD60, RAD62...	B11517	9 1/2	4.12
118, 211, 125, 128, 224, 225, 226, 322, ACR136...	B11518	5 1/2	3.23
C611, C612, 6T, 6K, 7T, 7K...	B11519	5 1/2	2.53
T4-8A, T4-9A, 4T...	B11524	3 1/2	2.06
U. S. RAD. & TEL.			
26-Cloritone...	B11523	2 1/2	1.94
ZENITH			
4P-26, 4T-26, 5S-161...	B11537	4 1/2	2.29
6S27, 6S52, 7S28, 7S33...	B11539	3	1.47
	B11540	5 1/2	2.20

TYPE "M" UNIVERSAL POWER TRANSFORMERS

For replacement in 80% of radio sets. Gives a choice of five mounting positions. With electro-static shielding and heavy 8-inch flexible leads. Cores of laminated silicon steel. Coils heavily insulated. Secondaries are center-tapped. Plate voltages are measured across total winding. Units for all popular types of rectifiers. 112-118 V., 50-60 cycles. (For 112-118 V., 25 cycles, add 60%. For 220-230 V., 50-60 cycles, add 25%. For 220-230 V., 25 cycles, add 75%.)



UNIVERSAL REPLACEMENTS FOR 2.5 VOLT TUBES

Cat. No.	Mfg. Type	Plate Volts	Fil. 1 Mils.	Fil. 1 V.	Fil. 1 A.	Fil. 2 V.	Fil. 2 A.	Fil. 3 V.	Fil. 3 A.	Mfg. Contors.	Shpg. Wt.	NET
B12550	P6001	650	40	5	2.0	2.5	4.0	...	...	2 x 2 1/2"	4 lbs.	\$1.47
B12551	P6002	700	50	5	2.0	2.5	7.25	...	...	2 x 2 1/2"	3 lbs.	1.91
B12552	P6003	700	70	5	3.0	2.5	9.0	...	...	2 1/4 x 2 1/4"	4 1/2 lbs.	1.06
B12553	P6004	700	90	5	3.0	2.5	12.5	...	...	2 1/4 x 2 1/4"	6 lbs.	2.50
B12554	P6005	700	70	5	3.0	2.5	9.0	2.5	3.5	2 1/4 x 2 1/4"	6 lbs.	3.09
B12555	P6006	700	120	5	3.0	2.5	12.5	2.5	3.5	2 1/4 x 2 1/4"	6 1/2 lbs.	3.09
B12556	P6007	800	110	5	3.0	2.5	15.0	2.5	3.5	2 1/4 x 2 1/4"	7 lbs.	3.23

UNIVERSAL REPLACEMENTS FOR 6.3 VOLT TUBES

Cat. No.	Mfg. Type	Plate Volts	Fil. 1 Mils.	Fil. 1 V.	Fil. 1 A.	Fil. 2 V.	Fil. 2 A.	Fil. 3 V.	Fil. 3 A.	Mfg. Contors.	Shpg. Wt.	NET
B12535	P6289	420	40	5	2.0	6.3	2.0	...	...	2 x 2 1/2"	4 lbs.	\$1.53
B12525	P6297	480	40	5	2.0	6.3	2.0	...	...	2 x 2 1/2"	3 lbs.	1.38
B12536	P6119	600	55	5	2.0	6.3	2.7	...	...	2 x 2 1/2"	4 lbs.	1.65
B12537	P6120	630	70	5	3.0	6.3	3.5	...	...	2 1/4 x 2 1/4"	6 lbs.	2.06
B12526	P6010	650	40	5	3.0	6.3	2.0	...	...	2 x 2 1/2"	4 lbs.	1.47
B12527	P6011	700	70	5	3.0	6.3	2.5	...	...	2 x 2 1/2"	4 lbs.	2.25
B12528	P6012	700	90	5	3.0	6.3	3.5	...	...	2 1/4 x 2 1/4"	6 lbs.	3.50
B12529	P6013	700	120	5	3.0	6.3	4.7	...	...	2 1/4 x 2 1/4"	6 lbs.	3.38
B12530	P6014	750	150	5	3.0	6.3	5.0	...	...	2 1/4 x 2 1/4"	6 lbs.	3.97
B12538	P6165	800	200	5	4.0	6.3	5.5	...	...	3 x 3 3/4"	7 1/2 lbs.	3.97

UNIVERSAL COMBINATION 2.5 AND 6.3 VOLT TUBES

Cat. No.	Mfg. Type	Plate Volts	Fil. 1 Mils.	Fil. 1 V.	Fil. 1 A.	Fil. 2 V.	Fil. 2 A.	Fil. 3 V.	Fil. 3 A.	Mfg. Contors.	Shpg. Wt.	NET
B12539	P6293	600	60	5	3.0	6.3	2.5	2.5	7.5	2 1/4 x 2 1/4"	5 lbs.	\$2.35
B12531	P6008	750	180	5	3.0	6.3	3.3	2.5	6.0	2 1/4 x 3 1/4"	7 lbs.	3.67
B12532	P6294*	750	85	5	3.0	6.3	3.5	2.5	9.0	2 1/4 x 3 1/4"	4 lbs.	2.79
B12533	P6296†	750	125	5	3.0	6.3	4.0	2.5	12.0	2 1/4 x 3 1/4"	6 lbs.	3.53
B12534	P6291†	750	150	5	3.0	6.3	5.0	...	...	3 1/4 x 2 1/4"	6 lbs.	3.67

*Also 5V. and 2.5V. at 3.5 A. winding. †Also 5V., 2.5V. at 4 A., and 2.5V. at 1.75 A. windings. ‡For motors in Push-Button tuning sets. 50-24-18 V. windings.



STANCOR OUTPUTS, CHOKES AND AUDIOS

High-grade silicon steel laminations. Universal transformers match any tube impedances.



OUTPUT TRANSFORMERS

No.	Type	Fig.	Primary	Secondary	Size Inches	Lbs.	NET
B12540	A3876	A	Sgl. 2000	4	1 1/2 x 2 3/8 x 1 1/2"	1	\$0.53
B12541	A3825	A	Sgl. 2500	4	1 1/2 x 2 3/8 x 1 1/2"	1	.94
B12542	A2203	A	Sgl. 4000	1, 2, 4	1 1/2 x 2 3/8 x 1 1/2"	1	.71
B12543	A3877	A	Sgl. 5000	4	1 1/2 x 2 3/8 x 1 1/2"	1	.53
B12544	A3822	A	Sgl. 7000; 10000	0.7, 1, 1.4, 2, 2.8, 4	1 1/2 x 2 3/8 x 1 1/2"	1	.68
B12545	A3878	A	Sgl. 7000	4	1 1/2 x 2 3/8 x 1 1/2"	1	.53
B12546	A2313	A	Sgl. 7000	8	1 1/2 x 3 1/4 x 1 1/2"	1 1/2	.82
B12500	A2201	A	P. P. 8000	6	1 1/2 x 2 3/8 x 1 1/2"	1 1/2	.88
B12501	A3824	A	P. P. 8000	1, 2, 4	1 1/2 x 3 1/4 x 2"	2	1.12
B12502	A3879	A	Sgl. 10000	4	1 1/2 x 2 3/8 x 1 1/2"	1	.53
B12503	A3831	A	P. P. 10000	2, 4, 8	1 1/2 x 2 3/8 x 1 1/2"	3	1.47
B12504	A3839	D	P. P. 10000	4, 8, 15, 2000	2 1/4 x 2 3/8 x 1 1/2"	2	1.47
B12505	A2312	A	P. P. 14000	4	1 1/2 x 3 1/4 x 1 1/2"	1 1/2	.88
B12506	A3881	A	Sgl. 15000	4	1 1/2 x 2 3/8 x 1 1/2"	1	.53
B12507	A3857	A	P. P. 25000CT	4	1 1/2 x 2 3/8 x 1 1/2"	1	.76

UNIVERSAL OUTPUT TRANSFORMERS

No.	Type	Fig.	Audio Watts	Secondary	Size	Lbs.	NET
B12510	A3856	A	4 watts	1 to 30	1 1/2 x 2 3/8 x 1 1/2"	1	\$0.76
B12509	A3823	A	8 watts	1 to 30	1 1/2 x 2 3/8 x 1 1/2"	1	.88
B12511	A3852	B	18 watts	1 to 30	2 1/4 x 2 3/8 x 1 1/2"	2	1.12
B12508	A3830	B	20 watts	1 to 30	2 5/8 x 4 1/8 x 2 1/4"	3	1.62

FILTER CHOKES

No.	Type	Fig.	Hys.	Ma.	Ohms	Size	Lbs.	NET
B12515	C-1706	A	5	50	300	1 1/2 x 2 3/8 x 1 1/2"	1	\$0.53
B12516	C-1707	A	7	50	500	1 1/2 x 2 3/8 x 1 1/2"	1	.53
B12517	C-1708	A	10	65	460	1 1/2 x 3 1/4 x 2 1/4"	1 1/2	.71
B12518	C-1709	A	9	85	250	1 1/2 x 3 1/4 x 2 1/4"	2	.94
B12519	C-1710	A	8	150	200	2 1/2 x 4 x 2 1/2"	2 1/2	1.18
B12520	C-1003	A	30	50	550	2 1/4 x 3 1/4 x 1 1/2"	2	.73
B12521	C-1002	A	30	75	400	2 1/4 x 3 1/4 x 1 1/2"	2 1/2	.91
B12522	C-1001	A	30	110	200	2 1/4 x 3 1/4 x 1 1/2"	2 1/2	1.09
B12564	C-1515	A	50	15	750	1 1/2 x 2 3/8 x 1 1/2"	1	.88
B12565	C-2303	A	10	130	100	2 x 3 1/4 x 1 1/2"	2	.58
B12566	C-2304	A	8	150	65	2 x 3 1/4 x 1 1/2"	2	.76
B12567	C-2305	D	20	100	275	2 1/2 x 2 3/8 x 2 1/2"	2	1.06

PLATE TO GRID AUDIO INTERSTAGE

No.	Type	Fig.	Ratio	Size	Lbs.	NET
B12570	A53	A	3:1	1 1/2 x 2 3/8 x 1 1/2"	1/2	\$0.68
B12571	A63	A	3:1	1 1/2 x 2 3/8 x 1 1/2"	3/4	.79

PUSH-PULL AUDIO INPUT

No.	Type	Fig.	Ratio	Size	Lbs.	NET
B12572	A4741	C	2:1	2 x 1 1/2 x 1 1/2"	1	\$0.88
B12573	A53C	A	3:1	1 1/2 x 2 3/8 x 1 1/2"	1/2	.73
B12574	A63C	A	3:1	1 1/2 x 2 3/8 x 1 1/2"	3/4	.85
B12575	A73C	A	3:1	2 x 3 1/4 x 1 1/2"	1 1/4	1.06
B12576	A4711	A	1:1	1 1/2 x 2 3/8 x 1 1/2"	1	1.03

UNIVERSAL AUDIO INTERSTAGE-SPLIT SECONDARIES

No.	Type	Fig.	Ratio	Size	Lbs.	NET
B12577	A4773	D	3:1	2 1/4 x 2 x 2 1/2"	2	\$1.32
B12578	A4774	C	3:1	2 1/4 x 2 1/4 x 2 1/4"	2	1.12
B12579	A4775	C	3:1	2 1/4 x 3 1/4 x 2 1/4"	2 1/4	1.41

FREE! TRANSFORMER GUIDE



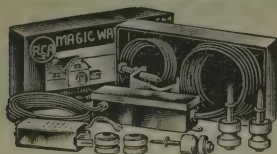
The free Stancor 6th Edition Service Guide includes listings for approximately 4200 radio receivers plus fence control and oscillator units. New charts show correct power, driver, and output transformers for any receiver. 48 pages. Ask for B11546.

REPLACEMENT DRIVER TRANSFORMERS

Dependable, low-cost types for repair jobs or kits. See your tube manual for tube coupling characteristics. Mounting types illustrated at right above.

B12558. A4292; Fig. A. Pri. Imp. 10000; DC 10 ma.; 1/2 Sec. 1600; H—1 1/2", W—2 1/4", D—1 1/2"; 1 lb. **NET**.....**88c**
B12559. A4712; Fig. A. Pri. Imp. 20000; DC 10 ma.; 1/2 Sec. 2200; H—1 1/2", W—2 1/4", D—1 1/2"; 1 lb. **NET**.....**82c**
B12560. A4713; Fig. A. Pri. Imp. 22500; DC 30 ma.; 1/2 Sec. 2500; H—1 1/2", W—2 1/4", D—1 1/2"; 1 lb. **NET**.....**82c**
B12561. A4401; Fig. B. Pri. Imp. 10000; DC 15 ma.; 1/2 Sec. 1400; H—2 1/4", W—2 1/4", D—2 1/4"; 2 lbs. **NET**.....**\$1.09**
B12562. A4752; Fig. C. Pri. Imp. 10000; DC 35 ma.; 1/2 Sec. 2500, 4400, 6300; H—2 1/4", W—2 1/4", D—1 1/2"; 2 lbs. **NET**.....**\$1.18**

RCA-VICTOR ANTENNA SYSTEMS & ACCESSORIES



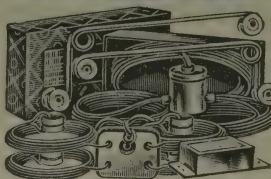
RCA "MAGIC-WAVE" ALL-WAVE ANTENNA

Factory-wired. Up to 16 radios may be operated from one installation. Kit includes Receiver and Antenna Couplers with built-in lightning arrester; 60' Antenna Wire; 45' Transmission Cable; 5' Ground Wire; 5 insulators; Ground Clamp. Wt., 5 lbs. **\$3.43**
B7540. No. 9812. NET.....

B7534. No. 9849. Antenna Coupler only, with built-in lightning arrester. \$1.15 NET.....

B7532. No. 9814. Distribution Transformer. Use one for each 4 additional sets. \$1.76 NET.....

B7533. No. 9813. Set Coupler only. For each additional set on one antenna. \$1.47 NET.....



RCA "SPIDER-WEB" ALL-WAVE ANTENNA

RCA's finest antenna. Insures greater signal pickup on every band with maximum noise rejection. Gives excellent all-wave reception over a frequency range from 140-23,000 K.C. Installation simple. Kit includes: 6 coils of 7 x 22 stranded antenna wire; 2 hangers; 1 coil of lead-in wire; receiver and antenna coupling transformers; 7 "U" clips; 2 antenna transformer connectors; complete instructions. For use with any receiver. Wt., 6 lbs. **\$5.26**
B7541. No. 9685. NET.....

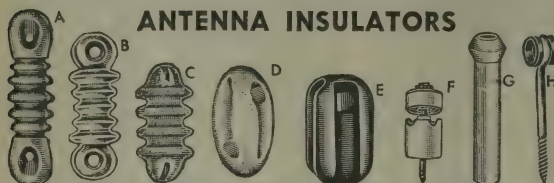
B7542. No. 9689. This kit when added to the Spider-Web increases range to cover from 23 to 70 M.C. Shpg. wt., 2 lbs. 88c NET.....



RCA 395 ALL-WAVE ANTENNA SYSTEM

A low-priced antenna that will improve the performance of any type of set. Fully assembled and ready to install. Provides improved signal pickup and high signal-to-noise ratio. Transmission line and receiver coupler help eliminate noise. Consists of 2-20 foot coils of antenna wire, 2-strain insulators, 60 foot transmission line, 1-junction box, 1-receiver coupler, 2-coupling links, 2-nail-knobs, 1-ground clamp, and complete instructions. Requires little space; span is only 40 feet. Shpg. wt., 5 lbs. **\$2.25**
B7544. NET.....

B7530. No. 12855. Receiver Coupler Unit Only. NET.....44c



ANTENNA INSULATORS

A splendid selection of choice insulators for practically every application in antenna installation. Each type of insulator is made of the finest quality material to assure dependable service. Shpg. wt., 1 lb. ea.

No.	Fig.	Size	Description	EA.	10 For	100 For
B3750	A	3 5/8"	Pyrex glass, 250W..	20c	\$1.85	
B3751	A	7 1/2"	Pyrex glass, 1000W..	75c	7.15	
B6196	B	3 1/2"	Glass type.....	2 1/2c	1.19	1.80
B6192	C	2 1/2"	Glazed porcelain....	2c	.19	1.80
B6193	C	4"	Glazed porcelain....	5 1/2c	.45	4.25
B6194	C	5"	Glazed porcelain....	9c	.84	7.50
B6217	D	1 3/4" x 7/8"	Lo-loss white porc..	3c	.20	1.80
B6195	E	2 1/4" x 1 1/2" D.	Brown glazed porc..	6c	.54	4.84
B318	F	1 3/4" x 1 1/2" D.	Porcelain nail knob..	2c	.18	1.64
B6212	G	3" x 5 3/8" I.D.	Porcelain tube.....	2c	.18	1.64
B6213	G	6" x 3 1/8" I.D.	Porcelain tube.....	2 1/2c	.20	1.80
B3403	H	3"	Porcelain Eye wall insulator.	2c	.17	1.60
B3404	H	7"	Porcelain Eye wall insulator.	3c	.26	2.45



LIGHTNING ARRESTERS

B3425. Fig. A. Approved by Underwriters'. Porcelain construction with screw terminals. Shpg. wt., 1 lb. 10 for 62c. EACH.....7c

B6199. Fig. B. Bakelite construction. Underwriters' approved. For single wire lead-ins. 1 lb. 10 FOR 80c 100 FOR \$7.25 EACH...9c

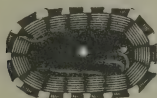
B5549. Fig. C. Black porcelain with screw terminals. For any two-wire lead-in or transmission line. Shpg. wt., 1 lb. EACH.....17c

B5533. Fig. D. Combination lightning and static arrester. Incorporates choke coil and condenser acting as noise and static reducer and filter. 1 lb. EACH.....43c

B3407. Fig. E. Uses Neon element in place of the usual air-gap or resistance. Fully approved by the Underwriters. 1 lb. EACH.....59c

B3408. Duplex Type. As above but for Doublet antennas. Shpg. wt., 1 lb. EACH.....78c

ANTENNA LOOPS FOR MIDGETS & PORTABLES



Replaces antenna coil in battery and midget sets or portables. Insures good signal pickup and excellent selectivity. Eliminates the necessity for using an outdoor or indoor antenna. Inductance is higher than needed; permits removing turns for accurately matching loop to radio. Easily installed in back of set. Two sizes. Shpg. wt., 1 1/2 lbs. **\$7.98. 4 3/4 x 8". NET..44c**
B5799. 7 1/2 x 9 1/2". NET..47c

SPRING AERIAL

For use where space is limited. Non-directional. Stretch of 15 to 30 ft. Two fibre-end insulators. Shpg. wt., 1 lb. **\$3.433. YOUR PRICE. 11c**



SPRING ADJUSTER

Prevents antenna sag. Powerful compression-type spring. Porcelain insulator end rings. Wt., 1 lb. **\$3.433. EACH.....24c**



COR-NEX CONNECTOR
For sets having input for either single or doublet type lead-in. Easily installed. Provides noise-free lead-in connections. Uses built-in lightning arrester. Requires 7/8" hole. Adjustable to 14 inches. 2 lbs. **\$1.47**
B3388. EACH.....

GRIPPER GROUND CLAMP



For use on pipe or rod up to 1 1/2" diam. Has pointed screw. **B3599. EACH.....3c**
10 FOR.....22c
100 FOR.....\$1.95

MUELLER CLAMP



Durable and rigid because of channeled construction. Case-hardened screw. Cadmium plated. Shpg. wt., 4 oz. **B6508. Lots of 10.....46c**
100 for \$4.25. EACH.....6c



PLATED GROUND RODS
Copper-plated steel, 3/8" diam., with screw clamp for lead-in wire. Shpg. wts., 4 and 6 lbs.

No.	Feet	EACH	10 For
B16040	4	28c	\$2.65
B16041	6	38c	3.60

PUSH-CLIPS

For fastening cords to floor or wall molding.

B6520. Brown. 6521. Ivory. Card of 8 Clips.....7c
In Lots of 10 Cards, PER CARD.....6c

INSULATED STAPLES

Saddle-type, insulated. 100 to the box. Wt., 2 lbs. **B3975. Per Box of 100...10c**
Per 1,000 (10 Boxes).....95c

ALUMINUM FOIL

Ideal as an inside aerial on bottom of set, under rugs, behind pictures, etc. Excellent for shielding. .0025" thick. Shpg. wt., 1 and 1 1/2 lbs. **B1970. 12 x 24". 24c NET.....**
B1971. 12 x 48". NET...35c



WINDOW LEAD-IN

Insulated, weather resistant. **B3427. Fig. A. 12 inch.....3c**
B3428. Fig. A. 16 inch.....5c
B6198. Fig. B. Dual window lead in, 12 inch.....8c

TRANSPPOSITION BLOCK

Made of glazed ceramic material. Prevents twisting of transposed lead-in; reduces electrical loss to minimum. 2 1/2" x 1 1/4". Shpg. wt., 3 oz. **B6215. 10 FOR 59c EACH.....7c**

GUY WIRE

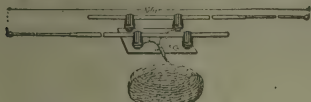
50-ft. coil of galvanized steel wire. Strong, tough. Shpg. wt., 1 lb. **B11298...15c**

ADJUSTABLE ANCHOR

Rustproof-steel anchor for keeping guy wires taut. Wt., 1 lb. **B11299. NET.....9c**

AERIALS • AERIAL ELIMINATORS

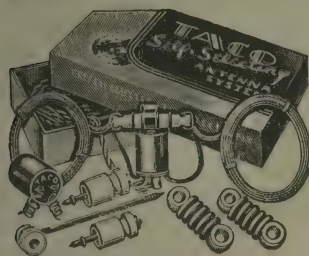
FREQUENCY MODULATION ANT.



A Television and FM antenna designed to cover a continuous frequency range of 40 to 90 MC. Consists of 2 large-diameter adjustable tubes, each 60 inches long, mounted on a bakelite base with ultra low-loss insulators. Each tube can be adjusted for the effective frequencies of any station within specified range. Employs "O" method of coupling between the transmission line and the antenna. Wt., 3 lbs.

B5938. Less transmission cable. **\$3.23**
NET.....

B5939. FM Antenna with 60 foot transmission cable. Wt. 6 lbs. **\$4.41**
NET.....



TACO ALL-WAVE AERIAL

Eliminates interference. Gives maximum signal pickup. Frequency range, 150 KC to 25 MC. Aerial length only 60 feet. Includes dual iron-core transformers for matching to any set; 2 30-ft. coils of stranded wire; 75 foot weather-proof cable, assembled and soldered; 1 screw-eye; 2 nail knobs; 2 porcelain insulators. Instructions. Shpg. wt., 4 lbs.

B8416. NET..... **\$3.97**

NEW! FM-AM COMBINATION TACO ALL-WAVE ANTENNA

Self-selecting all-wave antenna. Frequency, 150 KC to 75 MC. Receiver transformer has 2 extra leads for connecting to FM posts. Will match any radio. Wt., 5 lbs.

B8418. NET..... **\$4.12**

TACO POWER ANTENNA



Picks up radio signal from power line, filters and matches it to set. May be mounted inside radio

cabinet. Eliminates all ground and antenna wires. 1 lb.

B8417. NET..... **\$1.18**

SET MATCHING TRANSFORMER



For matching the transmission line of any doublet aerial to any All-Wave or Short-Wave receiver. Eliminates noise and increases signal strength. Wt., 1 lb.

B5545. NET..... **\$1.81**

AERIAL ELIMINATOR



Replaces outside aerial. Condenser and coil combination built in to give an effective equivalent of 75 feet of wire. Measures 5 x 2 1/2 x 1". Shpg. wt., 1 lb.

B5499. **\$1.05**
NET.....

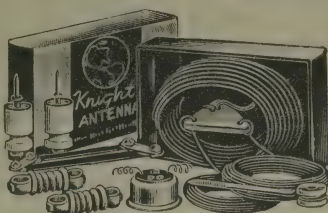
NEW ICA TENNA-SCOPE LOOP



For modernizing radio receivers which do not have a "built-in" antenna. Easily installed inside the cabinet of any radio receiver by following the simple instructions which are supplied. Entirely eliminates all ground and antenna wires. Provides higher signal to noise ratio and increases selectivity. Tuning range is 1715 KC to 500 KC, covering the entire broadcast band. An adjustment trimmer condenser permits adapting the loop to any receiver. Radio wires connect easily to Fahenstock clips.

IDEAL FOR PORTABLE RADIO

The small size of the loop permits its use with portable radios and midget sets, making the radio easy to move from place to place. Complete assembly measures only 8" long, 6 1/2" high, 1 1/4" deep. Shpg. wt., 2 lbs. **\$1.03**
B5680. NET.....



KNIGHT DE LUXE ANTENNA

IDEAL FOR ANY RADIO

A highly efficient antenna system at an unusually low price. Ideal for use with any radio receiver with standard or doublet input. This is one of the finest factory assembled All-Wave antenna systems available. It utilizes the famous doublet principle to provide maximum efficiency. The special transmission cable cancels out noise. A proper impedance match between antenna and receiver is assured through the use of a two-position coupling transformer. Easily installed. The 60 foot overall length makes it well-adapted for locations where space is limited. Factory-assembled kit consists of: 2-30-foot rolls of stranded aerial wire, 1-60-foot length of transmission cable, 1-crossover insulator, 1-impedance matching transformer, 2-glass insulators, 2-porcelain nail knobs, 1-eye-wall insulator, and 1-double lead-in window strip. Wt., 4 lbs.

B3391. **\$1.89**
NET.....

KNIGHT VERTICAL ANTENNA

The newest development in home type antennas. Mounts vertically to match newest broadcasting type antenna construction. Picks up less noise than old style horizontal antennas. Provides efficient reception with All-Wave, Broadcast, or SW receivers. Simple to install. No fuses and both with masts and horizontal wires. Insulator furnished provides positive weatherproof insulation. Universal bracket allows for easy fastening to gable or flat roof, or to chimney. Complete antenna assembly includes 4 section 12 foot mast, universal mounting bracket, 40 feet of lead-in wire, 10 feet of ground wire, lightning arrester, insulators, etc. Wt., 4 lbs.

B16050. NET..... **\$1.90**



WARD UNIVERSAL ROOF AND WINDOW ANTENNA

Latest type universal vertical antenna with newly developed bracket which permits mounting in almost any location desired. Can be easily attached to window sill, soil pipe, side of house, gable or flat roof, chimney, cornices, etc. Ideal for apartments, hotels, offices, etc., where roof installation is impractical.

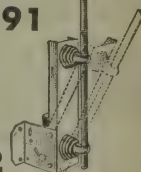
FOR ALL RADIO SETS

Will operate with any type of set: Broadcast, Shortwave, or All-wave. Can also be used for low-power high-frequency 10 and 20 meter transmission. Improved signal pickup. High signal-to-noise ratio. The perfect antenna for dealers to supply with all console sales. Guaranteed rust-proof. Includes 5 section 16 1/2 foot mast, soil pipe and universal mounting, 40 feet of lead-in wire and 9 feet of ground wire, ground clamp, ceramic insulators. Wt., 6 lbs.

B16051. Model **\$2.91**
CS-165. NET.....

Vertical mast type antenna like above, but for roof attachment only. 5 section mast extends 16 1/2 feet. Complete with all accessories listed above, except universal mounting. Wt., 6 lbs.

B16052. Mod. **\$2.62**
CS-165S. NET.....



FAMOUS DX LIFETIME AERIALS

Efficient non-directional antennas, fully-assembled. Designed to increase selectivity and reduce interference. Especially suitable for successful short wave reception. Built of 7/24 stranded enamel copper wire with zinc spacer rings. Assembled with two porcelain insulators and with 25 feet of rubber-covered lead-in wire soldered in place.

NO. 60 AERIAL

B9135. Length, 50 ft. 6 spacer rings. Contains 250 ft. wire. Shpg. wt., 4 lbs. **\$2.79**
NET.....

NO. 20 AERIAL

B9137. Length, 20 ft. 5 spacer rings. Contains 100 ft. wire. Shpg. wt., 2 lbs. **\$1.85**
NET.....

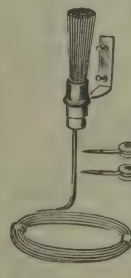
TOBE NO-TENNA



Tobe engineers have developed this highly efficient aerial eliminator after thorough research. Will bring in broadcasts without noise and interference. Ideal for use in locations where it is not convenient to use outdoor antenna. Easily attached to any make or model receiver. No tools needed. 1 lb.

B8409. 10 for \$5.50. **\$9.**
NET EACH.....

ALL-DIRECTIONAL AERIAL



Improves short wave and broadcast reception. Simple to install. Eliminates masts, poles, etc. Requires only a small mounting space. Has 40-ft. lead-in. Only a screw driver required for installation. Complete with insulators and mounting bracket. 4 lbs.

B10010. **\$1.95**
NET.....

INDOOR ANTENNA AND DYNATROL FILTER

Combination indoor aerial and line noise filter. Plugs into light socket and makes use of service line as antenna. May be used in conjunction with regular outside antenna to gain increased pickup. Serves to reduce noise and improves set sensitivity. Binding post connections. 1 lb.

B5518. NET..... **\$0.80**



AERIAL ELIMINATOR AND ANTENNA TUNER

This new device operates as a noise reducer when used with an outside aerial. Tunes antenna circuit to desired signal providing a better signal-to-noise ratio. May also be used by itself as an indoor aerial. Easily installed; works with any receiver; will improve reception. 1 lb.

B5554. NET..... **\$9.**

Belden RADIO PRODUCTS



BELDEN MAGNET WIRE

Famous Belden quality magnet wire. Highest grade soft-drawn copper wire with uniform insulation. Will not dry out or crack. Each spool is one continuous length, uniformly drawn. Standard B & S gauge. Ideal for winding chokes, coils, etc. Supplied on convenient metal spools. The finest quality magnet wire you can buy. Shpg. wt., 1 lb.

PLAIN ENAMELED ½ LB. SPOOLS

No.	Size	Feet	EACH
B3900	14	39	
B3901	16	63	27c
B3902	18	101	
B3903	20	160	29c
B3904	22	253	29c
B3905	24	402	30c
B3906	26	640	32c
B3907	28	1013	35c
B3908	30	1610	39c

½ LB. SPOOLS			
B3909	32	1275	24c
B3910	34	2030	29c
B3911	36	3220	32c
B3912	38	5120	42c
B3913	40	8140	63c

CELLULOSE ACETATE PUSH-BACK WIRE

Finest hookup wire. Cellulose acetate push-back insulation, covered over all with lacquer. basket-weave rayon braid. Solid is No. 20 tinned copper; stranded is 10-strand No. 30 tinned copper. 25 ft. spools. Wt., 6 oz.

Solid	Stranded
No. Color	No. Color
B2450 Red	B2455 Red
B2451 Blue	B2456 Blue
B2452 Green	B2457 Green
B2453 Black	B2458 Black
B2454 Yellow	B2459 Yellow
EACH... 17c	NET EACH... 19c

No. 14 Stranded
Similar to above but especially suited for heavy-duty use. No. 14 conductor is 41 strands of No. 30 copper wire. Wt., 1 lb.
B2460, 25 foot spool, **30c**
Black, NET
B2461, 25 foot spool, **30c**
Red, NET

**NO. 20 STRANDED
LOW-LOSS WIRE**
For A.V.C. and A.F.C. circuits where leakage must be low. Made up of 7 strands No. 28 wire. ¼" rubber covering, 9000 V. insulation. 25 ft. spools. Wt., 6 oz.
No. Color
B2395 Red **NET**
B2396 Blue **EACH**
B2397 Green **15c**
B2398 Black
B2399 Yellow

No. 20 Double Braid
Double braid, waxed push-back wire with Number 20 tinned conductor. 25 ft. spool. Wt., 6 oz.
Solid **Stranded**
B2920 Red **B2925** Red
B2921 Blue **B2926** Blue
B2922 Green **B2927** Green
B2923 Black **B2928** Black
B2924 Yellow **B2929** Yellow
NET **NET**
EACH... 12c **EACH... 14c**

**HOOK-UP WIRE
ASSORTMENTS**
Special assortments of 4—25 foot coils of Belden hook-up wire No. 20 tinned copper wire; cellulose acetate push-back insulation covered with basket-weave rayon braid. Colors: black, red, yellow, green.
B2918, Solid, **68c**
NET
B2919, Stranded, **NET 73c**

DOUBLE COTTON ½ LB. SPOOLS

No.	Size	Feet	NET
B3950	18	96	\$0.30
B3951	20	150	.32
B3952	22	235	.33
B3953	24	362	.38

½ LB. SPOOLS			
B3959	26	280	.25
B3959	28	430	.28
B3960	30	660	.31
B3961	32	965	.36
B3962	34	1373	.48
B3963	36	1675	.59

DOUBLE SILK ½ LB. SPOOLS

No.	Size	Feet	NET
B3980	18	100	\$0.41
B3981	20	160	.46
B3982	22	252	.47

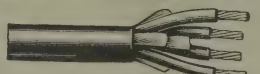
½ LB. SPOOLS			
B3987	24	196	\$0.29
B3988	26	310	.33
B3989	28	490	.39
B3990	30	775	.48
B3991	32	1207	.64
B3992	34	1785	.94
B3993	36	2685	1.23

GLAZED COTTON MULTIPLE CABLE



For permanent installation of speakers, remote controls, transmission lines, etc. Conductors of No. 20 tinned copper are in heavy rubber sheath, and color-coded glazed braid, with abrasion-proof woven braid overall.

No.	Conductors	Feet	100 Ft.
B2381	2	1 ½ c	\$1.25
B2382	3	2 c	1.57
B2383	4	2 ½ c	2.09
B2384	5	3 c	2.48



RUBBER-COVERED MULTIPLE CABLE

No. 20 stranded wire conductors for speakers and for power supply lines. Individual conductors rubber covered, cotton wrapped, with jacket of heavy, flexible rubber.

No.	Cond.	Feet	100 Ft.
B2390	2	2 ½ c	\$2.10
B2391	3	3 c	2.59
B2392	4	4 c	3.45
B2393	5	5 c	4.41



RUBBER SERVICE CORD

Round, flexible, weather-proof cable. No. 18 (16/30) stranded wire conductors, each rubber covered and coded; with cotton wrapping and outer live rubber sheath.

No.	Cond.	Feet	100 Ft.
B2435	2 Cond.		
100 ft.	\$2.10	Per Ft.	2 ½ c
B2436	3 Cond.		
100 ft.	\$2.85	Per Ft.	3 ½ c



BAKELITE ARRESTER

Underwriters' approved. Positive protection. \$100.00 guaranteed. Sturdy, compact. Wt., 8 oz.
B2403, EACH..... **13c**
B2409, Similar to above but for double antenna. Brown porcelain. Wt., 8 oz.
NET..... **21c**

LEAD-IN WIRE

RUBBER-COVERED

Stranded conductor, covered with special rubber insulation to allow easy stripping for soldering. Finest quality.

No.	Size	Length	NET
B2422	14	50 ft.	\$0.42
B2423	14	250 ft.	1.92
B2424	16	50 ft.	.29
B2426	16	100 ft.	.50
B2425	16	250 ft.	1.22
B2431	18	100 ft.	.40

SHIELDED

Heavy rubber insulation over stranded conductor. Overall shield of tinned braided copper wire. Ideal for shielded lead-in use. Weather-proof.

No.	Size	Length	NET
B2427	14	50 ft.	\$1.27
B2428	14	250 ft.	5.65
B2429	16	50 ft.	.73
B2430	16	250 ft.	3.45

MICROPHONE CABLE



Shielded, rubber-sheathed mike cable; low capacity, rubber core with tinned copper and phosphor bronze stranding.

SINGLE CONDUCTOR

No.	Size	Per Ft.	100 Ft.
B2445	26	5c	\$4.18
B2446	20	4c	3.15

FOR CARBON MIKE ETC.

No.	Cond.	Per Ft.	100 Ft.
B2876	2	5c	\$4.04
B2877	3	5 ½ c	4.41
B2878	4	6 c	5.70
B2879	5	9 ½ c	7.06
B2880	6	10c	8.23
B2881	7	12c	9.55

* SPECIAL PURPOSE CABLE

No.	Use	Per Ft.
B2366	Lapel Mike	3c
B2367	Phono Pickup	2c

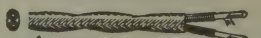
*Shielded single conductor

BELDEN ARMORED SPEAKER CABLE



Weather-proof, armored speaker cable that will stand hard usage. Consists of 2 parallel strands No. 18 wire with cotton wrap, ¼" rubber wall, paper wrap, and tinned steel armor overall.
B2404, PER FOOT..... **3c**
100 FOOT COIL..... \$2.55

INTERCOM CABLE



High-grade cable for communication systems. Consists of No. 19 solid copper wire, double enameled, with cotton wrap, waxed color-coded cotton braid, twisted pair, and bare copper shield.
B2414, PER FT..... **2 ½ c**
100 FOOT COIL..... \$1.85



MATCHED IMPEDANCE TWISTED PAIR LEAD-IN

66.4 ohm twisted pair transmission line. Two No. 18 conductors covered with color-coded rubber and white weather-proof braid. Designed to match most all-wave antennas and receivers.
B2324, 75 Ft. Coil **\$1.13**
B2325, 500 Foot Coil **\$7.31**

AERIAL WIRE BELDENAMEL



High conductivity aerial wire. Ideal for all types of Broadcast, All-Wave, and Short-Wave aerials. Belden-enameled insulation protects the wire from corrosion and atmospheric conditions.

7 x 22 ENAMELED

B2410	75 ft.	
List, 74c.	NET.....	44c
B2411	100 ft.	
List, 98c.	NET.....	58c
B2412	150 ft.	
List, \$1.45.	NET.....	85c
B2413	1000 ft.	
List, \$9.55.	NET	\$5.61

7 x 20 ENAMELED

B2415	100 ft.	
List, \$1.65.	NET.....	95c
B2416	1000 ft.	
List, \$16.00.	NET	\$9.40

SOLID ENAMELED

B2418	No. 10,	
100 ft. NET.....		97c
B2419	No. 12,	
100 ft. NET.....		69c
B2420	No. 14,	
100 ft. NET.....		46c

STRANDED BARE AERIAL WIRE

Finest quality Belden stranded bare copper wire. Ideal for all types of aerials. High conductivity; very little stretch. In continuous length coils.

7 x 22 WIRE

B2462	50 FEET.	
NET.....		22c
B2463	75 FEET. NET	31c
B2464	100 FEET. NET	42c
B2465	1000 FEET.	
NET.....		\$4.12

7 x 26 WIRE

B2466	50 FEET.	
NET.....		11c
B2467	75 FEET. NET	15c
B2468	1000 FEET.	
NET.....		\$2.02

COLOR RUBBER HOOKUP 20 GAUGE WIRE

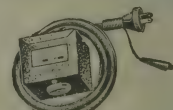
Used by most radio set manufacturers. Stranded tinned copper wire. Outer covering is .025" waxed rubber.



25 FOOT SPOOLS

B2335	Red	
B2336	Green	
B2337	Blue	NET
B2338	Black	EACH... 14c
B2339	Yellow	
B2340	Brown	
B2341	1000 ft. rolls of the above. Black, Brown, or Red only. Specify color.	
NET.....		\$3.26

POWER LINE FILTER



Underwriters' approved. Effectively eliminates man-made static on broadcast and short-wave bands. Dual condenser sections, and 2 high "Q" chokes. Ground for 3-wire power cord. For 115 volts, up to 3 amps. Wt. 3 lbs.
B2401, **\$2.94**
NET

AERIAL WIRE AND EQUIPMENT

VALUES IN AERIAL WIRE



Exceptionally high-quality hard-drawn copper wire. Has high conductivity and very little "stretch." Enameled wire will not corrode. Ideal for all types of aeriels; single wire, doublet, or cage-type, for All-Wave, Short-Wave, or Broadcast sets. Servicemen: these low prices will increase your aerial wire profit. Av. shpg. wt., 2 lbs. for 100 feet.

STRANDED ENAMELED

75 Ft. Coils				
Stock No.	Size	Per Coil	10 Coils	
B2550	7x26	\$0.20	\$1.90	
B2551	7x24	.27	2.60	
B2552	7x22	.37	3.50	

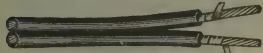
100 Ft. Coils				
Stock No.	Size	Per Coil	10 Coils	
B2553	7x26	.30	2.70	
B2554	7x24	.36	3.50	
B2555	7x22	.53	4.98	

200 Ft. Coils				
Stock No.	Size	Per Coil	10 Coils	
B2556	7x26	.59	5.30	
B2557	7x24	.66	6.25	
B2558	7x22	1.05	9.50	

SOLID ENAMELED

Solid enameled copper wire for x-mitting or receiving aeriels.

No.	Gauge	Feet	NET EA.
B3450	10	100	\$0.94
B3451	10	200	1.85
B3452	10	500	4.55
B3453	12	100	.61
B3454	12	200	1.17
B3455	14	100	.42
B3456	14	200	.80



HANDYCORD LAMP CORD

Rubber-jacketed, flexible cord; each conductor is No. 18 stranded copper wire, separately insulated in tough rubber sheath that splits down center when pulled apart. Fine for lamps, radios, etc.

B3410.	Brown.	PER FOOT
B3412.	Black.	
B3413.	Grey.	1 1/2c
B3411.	Ivory.	
B3414.	Green.	\$1.10
PER 100 FEET.....		

HEADPHONE AND SPEAKER CORDS

Copper tinsel inner conductor covered with closely-woven cotton braid. Tips are firmly anchored.

SINGLE CORDS

B2932.	4 foot cord. Tips on one end; spades on other. For use with speakers.
B2933.	4 foot cord. Tips on both ends.
NET EACH.....	8c
10 for 75c.	100 for \$7.15.

DOUBLE CORDS

B2934.	Spades on one end. Tips on other. 5 foot cord.
B2935.	Spades on both ends. 5 foot cord.
NET EACH.....	19c
10 for \$1.75.	100 for \$16.95

CANNON RUBBER CORDS

Durable double rubber head-set cord, 6 feet long. Shpg. wt., 2 lbs.

B2936.	NET.....	79c
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TEST-LEAD WIRE

Extra-flexible No. 18 test lead wire. Ideal for replacing worn-out test-prod leads or for making new test equipment. Made of 41 strands of No. 34 tinned copper wire, with waxed cotton wrapping, and 1/32" wall of rubber.

B2385.	Red.
B2386.	Black.
5 FOOT COILS, EACH.....	5c
B2387.	Red.
B2388.	Black.
PER FOOT.....	1 1/2c

STRANDED BARE

75 Ft. Coils				
Stock No.	Size	Per Coil	10 Coils	
B2559	7x26	\$0.13	\$1.20	
B2560	7x24	.20	1.90	
B2561	7x22	.29	2.80	

100 Ft. Coils				
Stock No.	Size	Per Coil	10 Coils	
B2562	7x26	.19	1.79	
B2563	7x24	.27	2.60	
B2564	7x22	.39	3.75	

200 Ft. Coils				
Stock No.	Size	Per Coil	10 Coils	
B2565	7x26	.37	3.50	
B2566	7x24	.50	4.75	
B2567	7x22	.77	7.40	

PHOSPHOR BRONZE

Strongest aerial wire. Has high conductivity, non-stretching. Used commercially on ships.

No.	Size	Feet	NET EA.
B3460	7x22	100	\$1.18
B3461	7x22	200	2.25
B3462	7x24	100	.99
B3463	7x24	200	1.50
B3464	7x26	100	.63
B3465	7x26	200	1.20

APPROVED CORD SET

An Underwriters' Approved cord for radios, lamps, fans, amplifiers, etc. 6 foot cord with rubber plug. An excellent value in a safe appliance cord.

B3495. YOUR PRICE. 14c

FLEXIBLE SPAGHETTI

For insulating bus bar wire, and condenser and resistor pigtail leads. Fine quality impregnated cambric tubing.

B2895. Black. Per 30' Lgth. 6c

B2896. Yellow. 6c

B2897. Red. 6c

B2898. Green. 6c

10 LENGTHS.....53c

GIANT SPAGHETTI

Black cambric tubing, impregnated with oil varnish. 1/4" inside diameter, 36" long.

B2899. NET.....15c

10 LENGTHS.....\$1.25

SPAGHETTI ASSORTMENT

A handy selection of 26 lengths of spaghetti tubing in assorted diameters for every radio requirement. Each piece is 7 1/2" long. Shpg. wt., 1 lb.

B2894. NET.....29c

BELL WIRE

No. 18 solid copper wire with a double cotton insulation, paraffin-impregnated.

B2440. 1/2 Lb. Coll. 18c

B2441. 25 Foot Coll. 7c

NET.....7c



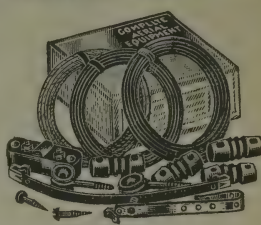
with 1/2" rubber insulation; glazed			
B2494. 2 Conductor.	100 Ft.	500 Ft.	1000 Ft.
	\$1.70	\$8.10	\$15.40

SPECIAL VALUE AERIAL KITS

DE LUXE AERIAL KIT

An exceptionally fine kit. Will improve reception of any radio set. Contains 100 feet of 7 strand copper aerial wire; 40 feet of rubber-covered lead-in wire; 25 feet of ground wire; 4—porcelain insulators; 2—screw-eye insulators; 1—lightning arrester; 1—window lead-in strip; 1—adjustable ground clamp. Easily installed in any location by following the complete, easy instructions included with each kit. Shpg. wt., 6 lbs.

B3486. NET.....69c



STANDARD AERIAL KIT

A real value in a complete aerial kit. Includes all materials for a "Marconi type" antenna for use with any receiver. Consists of: 90 feet of 7x27 stranded copper aerial wire; 25 feet of rubber covered lead-in wire; window lead-in strip; two porcelain insulators; two nail knobs; and an adjustable strap-type ground clamp. Conveniently boxed with instructions. Shipping wt., 4 lbs.

B3485. YOUR NET PRICE.....37c

ALL-PURPOSE LEAD-IN WIRE

TWISTED PAIR SHIELDED LEAD-IN

For all-wave and doublet aeriels. No. 20 solid copper conductors; weather-proof insulation with closely woven copper shielding overall.

B2487. 50 Ft. Coils. \$0.98

B2488. 100 Ft. Coils. 1.90

B2489. 250 Ft. Coils. 4.70



WEATHERPROOF TWISTED PAIR

Low impedance transmission line. Two No. 22 stranded copper conductors, rubber-covered. Parafined braid overall.

B2434. 50 Ft. Coils. \$0.46

B2432. 100 Ft. Coils. .89

B2437. 250 Ft. Coils. 2.10



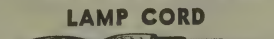
RUBBER TWISTED PAIR LEAD-IN

For all noise-reducing doublet antenna systems. No. 18 twisted rubber-covered stranded wire.

B3488. 50 Feet.....\$0.45

B3489. 100 Feet......88

B3491. 250 Feet..... 2.10

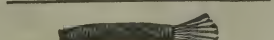


LAMP CORD

Underwriters' approved. No. 18—1/32 rubber insulation with black cotton braid. For extension or A.C. line cords.

B3592. Per foot.....1 1/2c

B3593. Per 100 Ft.....\$1.30



ANALYZER CABLE

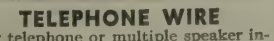
For use in repairing or modernizing test equipment. Tinned, stranded conductors with individual rubber and color-coded braid covering.

B3350. 8 Conductor. Has 2 No. 16 and 6 No. 20 wires. 9c

PER FOOT.....9c

B3351. 9 Conductor. Has 2 No. 16 and 7 No. 20 wires. 10c

PER FOOT.....10c



TELEPHONE WIRE

For telephone or multiple speaker installations. No. 19 solid tinned copper cotton braid overall.

B2495. 3 Conductor.	100 Ft.	500 Ft.	1000 Ft.
	\$2.15	\$10.15	\$19.40

RUBBER COVERED LEAD-IN WIRE

STRANDED

Stranded No. 18 rubber-covered lead-in wire. Flexible wire; very easy to work.

No.	Ft.	10 for	EACH
B3479	25	\$1.05	\$0.11
B3480	50	1.95	.20
B3481	100	3.65	.37
B3497	250	8.75	.90
B3482	1000	.....	3.40

SOLID

High quality No. 16 rubber covered lead-in wire. Weatherproof.

No.	Ft.	10 for	EACH
B3475	25	\$1.30	\$0.14
B3476	50	2.50	.27
B3477	100	4.85	.52
B3467	250	11.95	1.28
B3478	1000	.....	4.95

SHIELDED LEAD-IN

For broadcast use. No. 18 stranded tinned wire; rubber-covered; tinned copper braid overall.

B3492. 50 Feet. 60c

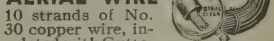
YOUR PRICE.....60c

B3494. 100 Feet. \$1.18

YOUR PRICE.....\$1.18

B3499. 250 Feet. \$2.90

YOUR PRICE.....\$2.90



LEAD-IN AND AERIAL WIRE

10 strands of No. 30 copper wire, insulated with Gutta-percha. Free-stripping.

No.	Length	NET
B3471	25 ft.	\$0.12
B3470	50 ft.	.23
B3469	100 ft.	.44
B3466	250 ft.	1.05
B3468	1000 ft.	4.05

INDOOR ANTENNA WIRE

For A.C.D.C. and midget sets. Brown cotton covered. May be used under rugs, etc.

B3483. 100 Feet.....37c

B3484. 25 Feet. 10c

NET PRICE.....10c

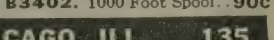


LITZ WIRE

Superior quality for low-loss coil winding. 10 strands No. 38 high conductivity copper, white double-silk covered.

B3401. 100 Foot Spool. NET...12c

B3402. 1000 Foot Spool. 90c



HOOK-UP & MAGNET WIRE - CABLES



SINGLE COTTON ENAMELED MAGNET WIRE

An exceptionally high-grade magnet wire. Properly annealed for easy handling. Cotton wrap over enamel gives adequate insulation.

Each spool holds one continuous uniformly drawn, insulated length. B. & S. Gauge. Smaller spools are used by radio experimenters and builders for winding RF coils, chokes, etc. The two and five pound spools are used for winding motor armatures, power transformers, electro-magnets, solenoids, etc.

1/2 LB. SPOOLS				1 LB. SPOOLS			
No.	Ft.	NET	Size	No.	Ft.	NET	Size
B3354	39	\$0.23	14	B3367	78	\$0.41	28
B3355	49	.24	15	B3368	98	.42	34
B3356	62	.25	16	B3369	124	.44	40
B3357	78	.26	17	B3370	156	.46	48
B3358	98	.27	18	B3371	198	.48	56
B3359	124	.28	19	B3372	248	.49	64
B3360	156	.29	20	B3373	312	.52	80
B3361	196	.30	21	B3374	392	.55	96
B3362	245	.31	22	B3375	490	.58	112
B3363	386	.35	24	B3376	772	.67	160
B3364	468	.36	25	B3377	936	.70	184
B3365	605	.41	26	B3378	1209	.73	208
B3366	938	.46	28	B3379	1876	.79	280
B3353	1390	.49	30	B3380	2780	.95	392

2 LB. SPOOL				5 LB. SPOOL			
No.	Ft.	NET	Size	No.	Ft.	NET	Size
B3700	62	\$0.78	10	B3710	155	\$1.85	25
B3701	98	.79	12	B3711	246	1.90	32
B3702	156	.80	14	B3712	390	1.95	40
B3703	195	.82	15	B3713	488	1.99	48
B3704	248	.84	16	B3714	620	2.04	56
B3705	312	.86	17	B3715	780	2.09	64
B3706	396	.88	18	B3716	990	2.14	72
B3707	488	.90	19	B3717	1240	2.23	80
B3708	624	1.02	20	B3718	1560	2.47	96
B3709	784	1.08	21	B3719	1990	2.61	112

WE CAN SUPPLY

all sizes of single cotton-covered enameled magnet wire in any length required. To determine your cost, simply multiply the price listed after the one pound spool of the size required, by the number of pounds. Send us your order with a 25% deposit; shipment will be made promptly.



COLOR RUBBER HOOK-UP WIRE

Stranded tinned No. 18 copper wire with flexible rubber insulation.

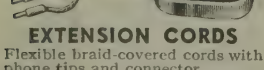
25 FOOT COILS			
B3572.	Red.	NET	EACH
B3573.	Green.	13c	
B3574.	Blue.		
B3575.	Black.		
B3576.	White.		
10 FOOT	\$1.12		
B3577.	1000 FT. ROLLS.		

Specify color. NET...\$3.35

No. 16 STRANDED			
Current carrying cap., 7 amp.			
B2744.	Red.		
B2745.	Black.	22c	
25 Foot Coils, Each			

No. 14 STRANDED			
Current carrying cap., 15 amp.			
B2746.	Red.		
B2747.	Black.	38c	
25 Foot Coils, Each			

No. 12 STRANDED			
Current carrying cap., 20 amp.			
B2748.	Red.		
B2749.	Black.	48c	
25 Foot Coils, Each			



EXTENSION CORDS
Flexible braid-covered cords with phone tips and connector.

B5555.	20 Ft. Cord.	NET 35c
B5556.	30 Ft. Cord.	NET 51c
B5557.	50 Ft. Cord.	NET 76c
B5558.	Extra Connector	8c

HIGH-GRADE MAGNET WIRE ON SPOOLS

Insulated copper wire of highest quality for all radio and electrical purposes. Wound on spools in continuous lengths. Excellent for winding armatures and field coils, receiver and transmitter coils, rewinding power transformers and chokes. For shops, schools, laboratories, radio builders, experimenters, etc. Standard B. & S. Gauge. We can supply magnet wire in all sizes and types of insulation in larger quantities than listed below. Write for attractive prices which will save you money on quantity purchases of magnet wire. Plain Enameled, Double Cotton, or Double Silk types.

PLAIN ENAMELED 1/2 LB. SPOOLS				DOUBLE COTTON 1/2 LB. SPOOLS				DOUBLE SILK 1/4 LB. SPOOLS			
No.	Size	Ft.	NET	No.	Size	Ft.	NET	No.	Size	Ft.	NET
B3520	14	38	\$0.20	B3533	14	36	\$0.25	B3546	18	49	\$0.22
B3521	16	63	.23	B3534	16	61	.26	B3547	20	78	.23
B3522	18	101	.24	B3535	18	96	.27	B3548	22	126	.25
B3523	20	150	.25	B3536	20	150	.27	B3549	24	196	.27
B3524	22	253	.26	B3537	22	234	.30	B3550	26	310	.31
B3525	24	402	.26	B3538	24	362	.36	B3551	28	486	.37
B3526	26	640	.28	B3539	26	558	.46	B3552	30	775	.46
B3527	28	1013	.30	B3540	28	842	.52	B3553	32	1207	.62
B3528	30	1602	.34	B3541	30	1321	.60	B3554	34	1828	.89
B3529	32	2543	.38	B3542	32	1889	.70	B3555	36	2668	1.17
B3530	34	4042	.45	B3543	34	2746	.92	B3556	38	3875	1.48
B3531	36	6410	.56	B3544	36	3801	1.15	B3557	40	5325	2.25

HANDY MAGNET WIRE SPOOLS



Quality magnet wire in small quantities on handy marked spools. Double-cotton, double-silk and enamel types. Sleeve spool prevents tangling. Keep an assortment of popular sizes and types on hand. Wt. 8 oz.

13c

DOUBLE COTTON				DOUBLE SILK				PLAIN ENAMEL			
Size	No.	Feet		No.	Feet			No.	Feet		
14	B2755	21		B2770	19			B2785	25		
16	B2756	33		B2771	25			B2786	40		
18	B2757	42		B2772	31			B2787	48		
20	B2758	60		B2773	42			B2788	85		
22	B2759	81		B2774	60			B2789	133		
24	B2760	100		B2775	83			B2790	200		
26	B2761	148		B2776	101			B2791	292		
28	B2762	168		B2777	119			B2792	420		
30	B2763	192		B2778	141			B2793	590		
32	B2764	216		B2779	163			B2794	805		
34	B2765	242		B2780	190			B2795	1150		
36	B2766	266		B2781	219			B2796	1560		
38	B2767	294		B2782	243			B2797	1980		
40	B2768	325		B2783	275			B2798	2430		

Lots of 10, assorted, \$1.20
YOUR PRICE ANY SPOOL.....13c

PUSH-BACK HOOK-UP WIRE

This insured push-back hook-up wire is of the highest quality. Only evenly-drawn pure copper wire is used. Available in both solid and stranded wire. The stranded wire is made up of carefully twisted individual strands with a tensile strength that gives them unusual flexibility.

FIVE DIFFERENT COLORS

This wire is double-cotton covered with paraffin-treated damp-proof braid which pushes back easily. Available in five distinctive colors. Use a different color for each circuit for ready identification. Buy in quantities at our attractive low prices.

No. 20 SOLID 25 FOOT ROLLS			
B3560.	Black.	PER ROLL	
B3561.	Yellow.	11c	
B3562.	Red.		
B3563.	Green.		
B3564.	Blue.		
10 FOR 99c.			

100 FOOT ROLLS			
B3565.	Black.	PER ROLL	
B3566.	Yellow.	36c	
B3567.	Red.		
B3568.	Green.		
B3569.	Blue.		
10 FOR \$3.45.			

1000 FOOT SPOOLS			
Solid push-back wire as described above in 1000 ft. continuous rolls in any color listed. Specify color.			
B3570.		\$3.45	
1000 FT. NET.....			

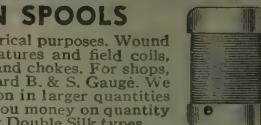
No. 14 SOLID 25 FOOT ROLLS			
High-voltage insulation. Ideal for transmitters, power packs, etc.			
B2870.	Black.	PER ROLL	
B2871.	Red.	26c	
B2872.	Green.		
B2873.	Blue.		
B2874.	Yellow.		
B2875.	100 FT. ROLLS.		
Specify Color. EACH.....		95c	

No. 20 STRANDED 25 FOOT ROLLS			
B3580.	Black.	PER ROLL	
B3581.	Yellow.	12c	
B3582.	Red.		
B3583.	Green.		
B3584.	Blue.		
10 FOR \$1.05.			

100 FOOT ROLLS			
B3585.	Black.	PER ROLL	
B3586.	Yellow.	41c	
B3587.	Red.		
B3588.	Green.		
B3589.	Blue.		
10 FOR \$3.95.			

1000 FOOT ROLLS			
Stranded push-back hook-up wire in 1000 ft. lengths. Available in colors listed. Specify color.			
B3590.		\$3.90	
1000 FT. NET.....			

No. 18 SOLID 25 FOOT ROLLS			
Heavier wire especially suited for use in filament circuits, etc.			
B3394.	Black.	PER ROLL	
B3395.	Red.	14c	
B3396.	Green.		
B3397.	Blue.		
B3398.	Yellow.		
B3399.	100 FT. ROLLS.		
Specify Color. EACH.....		51c	



CABLES FOR EVERY PURPOSE



HIGH IMPEDANCE MICROPHONE CABLE

Low capacity, high-impedance microphone cable, shielded and rubber-jacketed. Conductor is of fine stranded No. 26 copper; extremely flexible. Low-loss. *B2469 in No. 20 stranded copper; for hard usage over short distances.

SINGLE CONDUCTOR

No.	Capacity	Per Ft.	100 Ft.
B2497	24 mmf.	4c	\$3.25
B2499	26 mmf.	3 1/2c	3.10
B2481	36 mmf.	2 1/2c	2.31
B2469*	27 mmf.	4 1/2c	3.75

DOUBLE CONDUCTOR

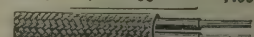
B2498	30 mmf.	5 1/2c	\$4.10
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CARBON MIKE AND UTILITY CABLE

Heavy rubber jacket over tinned copper shielding. Ideal for outdoor and heavy duty service.

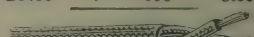
No.	Cond.	Per Ft.	100 Ft.
B3514	2	4c	\$3.10
B3515	3	4 1/2c	3.95
B3516	4	5 1/2c	4.85
B3517	5	6 1/2c	5.70
B3518	6	7c	6.35
B3519	7	8c	7.55



MULTI-CONDUCTOR STRANDED CABLES

Color-coded stranded conductors, each covered with rubber jacket with brown cotton braid over all.

No.	Cond.	10 Feet	100 Ft.
B3500	2	15c	\$1.35
B3501	3	20c	1.90
B3502	4	25c	2.45
B3503	5	35c	3.10
B3504	6	40c	3.50
B3505	7	45c	3.85
B3495	8	50c	4.85
B3496	9	60c	5.50



SHIELDING OVERALL

Tightly woven overall shielding of fine tinned copper wire. Each conductor color-coded and insulated with rubber. Any length.

No.	Cond.	Per Ft.	100 Ft.
B3507	2	3c	\$2.40
B3508	3	3 1/2c	2.95
B3509	4	4 1/2c	3.75
B3510	5	5c	4.35
B3511	6	6c	5.25
B3512	7	7c	6.15

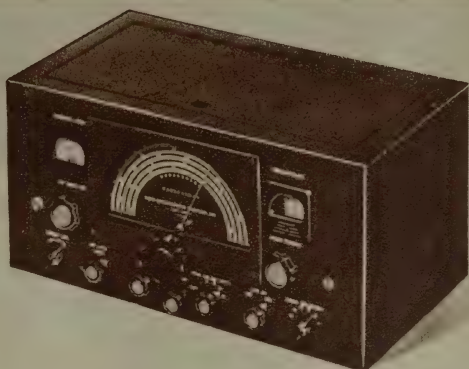
Greetings FROM W9IBC

This 212-page catalog is truly your radio guide to "Everything in Radio"—with an Amateur section devoted to the items you need most often, and the finest selection of Communication Receivers and Transmitter Kits in the world. Twenty thousand Amateurs depend on ALLIED for the latest in new gear and the fastest service. Above all, ALLIED brings you the "cream of the crop" at consistently lower prices. Only ALLIED offers you such easy and economical time payment terms as a 6% carrying charge, with down payments as low as 10%—and up to a full year to pay! Refer to ALLIED's Amateurs for real Amateur SERVICE!

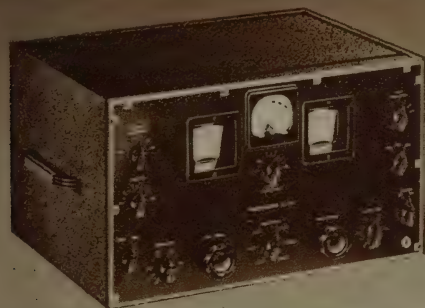


THE NEW RME-99 RECEIVER

A product of several years of research and receiver design, the RME-99 is undoubtedly the finest communication receiver ever produced by the famous RME laboratories. Besides retaining the basic fundamental requirements of communication receivers as embodied in the RME-69 and RME-70, this new 12-tube receiver is destined to establish future standards for performance and efficiency. New high-efficiency, low-loss loktal tubes are used as follows: 7A7 RF stage, 7B8 Detector-mixer, 7A4 Heterodyne oscillator, 3—7A7 IF's, 7F7 Second Detector, 7A6 Noise Suppressor, 7A7 Beat Oscillator, 7C5 Beam Power Audio Amplifier with four watts of undistorted power output, 80 rectifier and VR-150 Voltage Regulator. High stability of signals is assured by painstaking care in design of circuits normally subject to voltage and temperature changes. In addition to high-signal stability, the RME-99 provides a degree of selectivity for every possible receiving condition, from "on-the-nose" tuning for crowded CW bands to "wide-open" for phone and Broadcast reception. Full tuning coverage is provided from 540 KC to 33,000 KC in six bands. Semi-circular bandspread dial is 8' in diameter with white calibrations on black background for maximum visibility; is indirectly illuminated; full calibration for the Amateur 80, 40, 20, and 10 meter bands provides nearly 180 degrees on the bandspread dial for each band. Other features include: illuminated signal level meter calibrated in "R" units and steps of 6 db; fixed bandswitching with split-stator tuning; RF circuits switched on ceramic insulated bandswitch; new crystal filter with six selectivity positions; solid cast aluminum chassis; BFO pitch control; break-in relay terminals; Automatic Noise Silencer with panel control; voltage regulation; low temperature drift provided by improved chassis design; weather-proofed for operation under adverse climatic conditions; and many others. The RME-99 is housed in a wrinkle-finished furniture steel cabinet, 19" x 8 1/2" x 10 1/2". Also supplied is a high-quality 8" PM dynamic speaker housed in metal cabinet to match the receiver. The RME-99 is supplied with crystal, full set of matched tubes, and complete instructions.



The RME-99 is available in either black or gray wrinkle finish; unless gray is specified on your order, we will ship black. For 105-125 Volt, 50-60 cycle AC. Shpg. wt. 70 lbs. (Available for other voltages. Write for prices.)
B16349. RME-99, complete with speaker. \$137.40
NET CASH PRICE.....
Terms: \$13.74 down, \$10.92 monthly for 12 months.



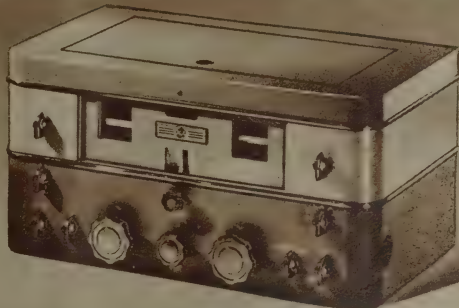
HAMMARLUND MODEL HQ-120X

The Hammarlund HQ-120X was designed to meet the most critical demands of both the Amateur and the professional operator. This ultra-modern 12-tube receiver covers a continuous tuning range of from 540 KC to 31 MC in 6 bands. Precise workmanship, coupled with careful engineering and design, assure exceptionally high selectivity, sensitivity, and stability. Every worthwhile feature contributing to peak performance for all classes of commercial or Amateur service has been incorporated in the HQ-120X. Special tuning condenser construction permits 310 degrees of bandspread for each Amateur band; direct calibration of tuning dial permits accurate logging. A new type of crystal filter giving six positions of selectivity for Phone or CW makes operation a pleasure even under unusually crowded conditions of reception on Amateur bands. Built-in noise limiter circuit overcomes objectionable noise disturbances; operates with or without AVC on and is controlled by panel on-off control. "S" meter indicates in "S" units and is calibrated S1 to S9 and up to 40 DB above "S9." Tuned preselector stage with three high gain IF stages produce highest signal-to-noise ratio with maximum attenuation of image frequencies. Panel control of antenna compensator permits adjustment for peak performance on each band. Send-Receive switch with external break-in relay terminals permits automatic silencing of receiver during transmitting periods when connected to transmitter control relay. Automatic voltage regulator compensates for line voltage fluctuation; prevents voltage changes affecting the stability of the high-frequency oscillator circuit thus insuring signal stability. With 10" PM type speaker. For 110 volts, 50-60 cycles AC. Wt., 47 lbs.

B16340. HQ-120X, with tubes, speaker and crystal. \$138.00
NET CASH PRICE.....

Time Payments: \$13.80 down, \$10.97 monthly for 12 months.

B16341. SC-10 Metal cabinet for HQ-120X speaker. NET...\$3.90



THE RCA AR-77 RECEIVER

Designed to provide the highest possible degree of performance in successful reception for communication work, the AR-77 receiver incorporates every desirable feature. "Stay-tun" tuning is accomplished through the use of ultra-efficient polystyrene insulation at strategic places to keep circuit losses to an absolute minimum; temperature compensation in the high-frequency oscillator circuit assures constantly stable performance without frequency drift. Voltage regulation is applied to the plate supply of the oscillator and first detector circuits to prevent frequency shifts with sudden fluctuations of line voltage. Two Uni-view dials tell at a glance to what part of the tuning spectrum the receiver is tuned; scales automatically change to conform to bandswitch setting. Full and continuous coverage is provided from 540 KC to 31,000 KC with calibrated electrical bandspread provided for the 10, 20, 40, and 80 meter Amateur bands. Among its many other features are: Dual RF alignment; Accurate signal reset; Calibrated tuning; Variable six-step selectivity from needle sharp for CW to broad high-fidelity for phone; BFO; Magnetite core IF's; Break-in relay terminals; Calibrated Carrier Level meter; Automatic Noise Limiter; Tuned RF stage; Voltage regulation; provisions for diversity reception; Vernier index logging scales on main and bandspread dials provide accurate reset-tuning to any desired frequency within the total tuning range whenever desired, and many others. Tubes used are 3—6SK7, 1—6K8, 1—6H6, 1—6SQ7, 1—6F6, 1—6SJ7, 1—5Z4, and 1—VR150. Housed in beautiful steel cabinet, 20" x 10 1/2" x 11 1/2", finished in gray wrinkle with chrome trim. For 110 volts, 50-60 cycles AC. Shpg. wt., 57 lbs.

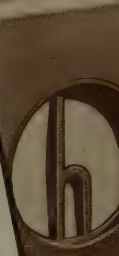
B16345. AR-77, with tubes, less speaker. \$139.50
NET CASH PRICE.....

B16346. RCA MI-8303 Speaker for AR-77, in gray metal cabinet to match receiver. CASH PRICE...\$8.00
Terms (with speaker): \$14.75 down, \$11.72 monthly for 12 mos. 137

World-Famous Hallicrafters

THE NEW SX-28 SUPER-SKYRIDER

- New 15 Tube Circuit
- Two Tuned RF Stages
- Tunes 550 KC to 43 MC
- Frequency Meter Tuning
- Adjustable Noise Limiter
- Six Step Selectivity
- High Fidelity Audio
- Inertia Controlled Dials
- Temp. Compensated
- Micrometer Main Tuning
- Calibrated Bandspread



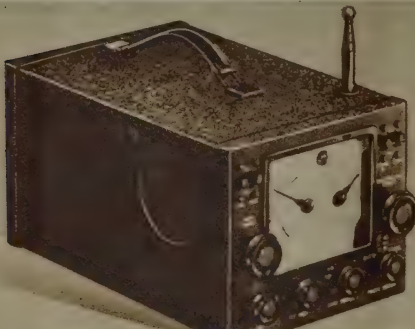
THE 1941 SUPER SKYRIDER—DESIGNED TO GOVERNMENT SPECIFICATIONS

The 1941 Super Skyrider receiver was mechanically and electrically designed in the Hallicrafters laboratory—but the specifications and performance characteristics were the result of exhaustive analysis of more than 600 reports and recommendations, including the specifications of government engineers. Specific requirements for the best operation in the tropics and Sub-Arctic were included, as were military and marine requisites, broadcast monitoring necessities, professional communications requirements, DX needs, and of course regional and general Amateur requirements. In the Super Skyrider Model SX-28, the Hallicrafters offer the finest type of performance characteristics, with more genuine features than has ever before been possible even at a much higher price. For example, the cabinet is made of 16 gauge steel finished in machine tool gray wrinkle with special consideration for adequate ventilation; chassis of 14 gauge steel with flanged edges and flame-welded corners. Brushed cadmium plating protects the chassis and metal components, with special box-girder type shields covering the gang condenser and coil assemblies. Panel is 1/4-inch steel with morocco finish and etched control markings and will fit standard relay rack if desired. The SX-28 uses 15 tubes; 2—6SK7 RF stages, 6SA7 mixer, 6SA7 HF oscillator, 6L7 1st IF-noise limiter, 6SK7 2nd IF, 6B8 2nd detector, 6B8 AVC amplifier, 6SK7 noise amplifier, 6H6 noise rectifier, 6J5 BFO, 6SC7 audio driver, 2—6V6GT push-pull audio amplifier, and 5Z3 rectifier. Audio output impedance is 500 and 5000 ohms for speaker or long line.

Frequency range: 550 KC to 43 MC in six bands. **Controls:** Micrometer scale main tuning and calibrated bandspread for 80/40/20/10 meter amateur bands, both inertia controlled through preloaded ball-bearing mechanism. AF gain, RF gain, Tone control, Bass boost switch, Antenna trimmer, AVC-BFO switch, Bandswitch, Crystal phasing, Six-position selectivity, Adjustable Noise Limiter, BFO pitch, and Standby switch. **Dials:** Indirectly illuminated. Direct-reading vernier type main dial with dial lock. Bandspread dial calibrated on Amateur 80/40/20/10 meter bands with extra logging scale. Wide-angle "S" meter scale with "S" units and DB above S9. **Audio:** High fidelity push-pull audio stage with bass boost and bandpass filter. Input for phonograph pickup. **Other features:** Include extremely high usable sensitivity at all frequencies; improved signal to image and noise ratio; temperature compensation; semi-floating condenser gang; separate high-fidelity Hallicrafters Jensen Bass-reflex speaker cabinet with 12" PM speaker. The SX-28 operates from 110 volts 60 cycle AC. Shpg. wt., 87 lbs.

B16310. SUPER SKYRIDER MODEL SX-28, with tubes and crystal. Less speaker. **CASH PRICE \$1595.00**
Time Payments: \$15.95 down, \$12.68 monthly for 12 months.

B16314. Hallicrafters-Jensen Bass-Reflex cabinet with 12" PM speaker. Shpg. wt., 60 lbs. **NET \$29.50**
Terms (SX-28 and speaker): \$18.50 down, \$15.03 monthly for 12 mos.



THE NEW S-29 SKY TRAVELER

Here's the latest in communications type equipment by the world's largest builder of communication receivers! The S-29 provides true communication performance in a unit so compact, so easily carried with you, that you'll want to make it your constant companion wherever you go. It operates on 110 volts, either AC or DC; and in addition it operates from self-contained batteries! Tuning range is from 542 KC to 30.5 MC in four bands, with full electrical bandspread available at any desired portion of the tuning range. The S-29 uses new 1.4 volt tubes as follows: 1T4 RF stage, 1R5 mixer, 2—1P5GT IF's, 1H5GT Detector-AVC-Audio, 1—3Q5GT Audio amplifier, 1G4GT Beat Oscillator, 1G4GT Noise Limiter, and 25Z3 Rectifier. Controls are: Main tuning, Bandspread, RF gain, AF gain, Bandswitch, Power switch, AVC, BFO, Noise Limiter, and Standby switch. Has built-in speaker with jack for headphone use. Antenna input for doublet or single wire antenna, but also has a self-contained collapsible antenna for portable use that extends to nearly 3 feet in height; high gain antenna coupling circuit for maximum reception at all times. Ingenious self-contained charging circuit prolongs life of batteries for economical portable use. Improved Noise Limiter circuit and permeability-tuned RF and IF circuits contribute to exceptionally fine performance. Cabinet and chassis of aluminum; cabinet finished in black crackle, size, 7"x8 1/2"x13 1/4". Weight, including batteries, 18 lbs. Shpg. wt., 23 lbs.

B16311. MODEL S-29, with tubes and batteries. **\$595.00**
CASH PRICE
Time Payments: \$5.95 down, \$7.10 monthly for 8 months.

138



THE NEW S-27 FM-AM RECEIVER

A 15 tube Ultra-High-Frequency receiver designed for reception of either Amplitude-Modulated or Frequency-Modulated signals. Ideally suited to the specialized requirements of Municipal departments, Amateurs, Broadcast relay systems, airline and government services, etc. **Range:** 27 MC to 145 MC, continuous coverage in 3 bands. **Tubes:** 956 RF Amplifier, 954 1st. Detector, 955 Oscillator, 1852 1st. IF, 1853 2nd. IF, 6SK7 3rd IF, 1852 Limiter, 6H6 Frequency-modulation detector, 6H6 Amplitude-modulation detector and automatic noise limiter, 6C8G Audio amplifier and phase inverter, 2—6V6 Push-pull Audio amplifier, 6J5 Beat Oscillator, VR-150 voltage regulator, and 5Z3 rectifier. **Controls:** Tuning, RF gain, AF gain, Antenna trimmer, IF Selectivity, BFO, BFO pitch, AVC, Noise Limiter, Tone, FM-AM, Standby switch. Among the many unusual features incorporated in the S-27 are: Silver-plated contacts on condenser gang; Flywheel operated gear-driven tuning mechanism with separate bandspread scale having 2400 divisions for full rotation; Shock-mounted RF assembly; Plate-tuned oscillator; air-tuned iron-core IF's, and Zero-center "S" meter for accurate and easy tuning of FM signals. Limiter tube provides full limiter action on signals of approximately 5 to 10 microvolts in FM reception. For 110 volt 60 cycles AC. Shpg. wt., 75 lbs.

B16312. MODEL S-27, with tubes, less speaker. **\$1750.00**
CASH PRICE
Time Payments: \$17.50 down, \$13.92 monthly for 12 months.

B16305. 10" PM speaker in matching metal cabinet. **NET \$12.00**

RECEIVERS



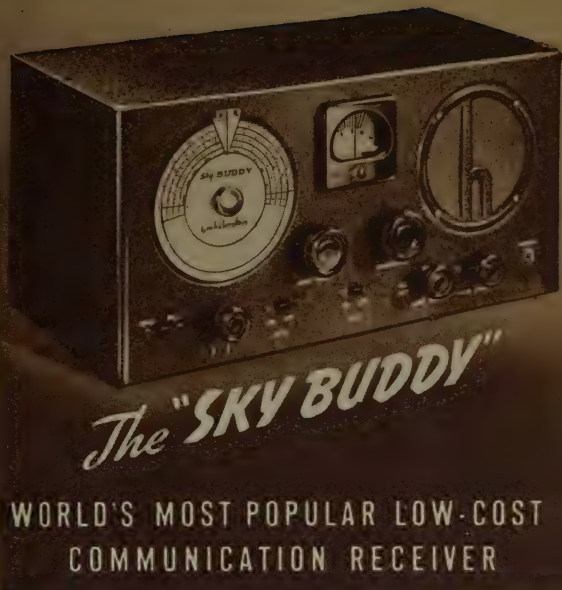
THE "SKY CHAMPION" S-20R

Meet the Sky Champion!—a real winner for quality performance—a blue-ribbon champion in its price class. It's "got what it takes" to make it a favorite with the Short-Wave DX fan and Amateur operator. Among its many features are: separate Bandspread dial, RF and AF gain controls, individual coils for each band, inertia tuning mechanism, Beat Frequency Oscillator, AVC switch, Tone Control, Beat Oscillator switch, send-receive switch, Pitch Control, Band switch, phone jack, and others. Here, too, is continuous tuning in four overlapping bands from 545 KC to 44,000 KC for dependable reception on Broadcast, Amateur, and Short-Wave bands. Nine tubes: 3—6SK7, 6K8, 6SQ7, 6F6, 6J5GT, 6H6, and 80—are arranged in a modern circuit which provides maximum gain, selectivity, and sensitivity. Speaker is built-in—there's nothing else to buy. Signal-to-noise ratio is surprisingly high. In fact, in every way, the Sky Champion is a super-efficient low-priced receiver that will put a real thrill into SW DX-ing or Amateur operation. It offers professional styling, conveniently grouped controls, operating flexibility and performance that are truly outstanding. Has provisions for operating from batteries or from vibrator type power pack and 6 V. storage battery, thus making it an ideal unit for mobile-portable operation, or for emergency service at locations far removed from the 110 volt AC supply lines. For 110 V. 50-60 cycles AC. Shpg. wt., 34 lbs.

B16301. S-20R. With Tubes.
NET CASH PRICE.

\$4950

Time Payments: \$4.95 down, \$5.90 monthly for 8 months.



WORLD'S MOST POPULAR LOW-COST COMMUNICATION RECEIVER

For the beginning Amateur, the Short-Wave Listener, or the boy in quest of new thrills by way of Short-Wave Radio, the Sky Buddy has always been the outstanding low-cost choice. This latest improved model offers even greater value than ever before. Tunes with full electrical band-spread from 545 KC to 44,000 KC in four bands and covers Standard Broadcast and Short-Wave Broadcast bands as well as the Amateur 160, 80, 40, 20, and 10 meter bands. Features are comparable to those usually found only in higher-priced receivers: separate band-spread dial, Beat Frequency Oscillator, send-receive switch, AVC switch, Pitch control, AF gain control, phone jack, etc.

OPERATES FROM AC OR BATTERIES

The Sky Buddy has built-in speaker offering excellent tone quality. Uses only six tubes—1—6K8, 1—6SK7, 1—6SQ7, 1—76, 1—41, and 1—80—but its performance is characteristic of most 8 tube sets. Antenna input for either doublet or Marconi type antenna systems. Headphone jack cuts out speaker when 'phones are plugged in. Although supplied for AC operation, the Sky Buddy is also equipped with a plug and socket arrangement at the rear which permits use of a 6 volt storage battery and "B" batteries or vibrator power pack for portable use or where AC lines are not available. With set of matched tubes. For 110 V. 50-60 cycles AC. Shpg. wt., 20 lbs.

B16300. MODEL S-19R, "SKY BUDDY"
NET CASH PRICE.

\$2950

Terms: \$4.43 down, \$4.43 monthly for 6 months.



THE "DEFIANT" MODEL SX-24

The SX-24 is not just an economically priced receiver, but is truly outstanding in its brilliant performance, high selectivity and unusually high sensitivity to weak signals. Frequency Meter Tuning is provided by means of two translucent illuminated tuning dials, one for main tuning control and one for the electrical band-spread system; both are directly calibrated. Built-in Noise Limiter, Variable Selectivity in six positions from Sharp Crystal to Broad IF, Carrier Level meter calibrated in "S" units and DB. Double-balance bridge-type crystal filter, Frequency stabilization and a full four band tuning range from 545 KC to 43.5 MC—all contribute to peak performance. TRF stage and two high-gain IF's provide ample sensitivity and selectivity. Finished in attractive gray wrinkle. High quality Jensen 10" Permanent magnet dynamic speaker is supplied in gray wrinkle metal cabinet with chrome trim to match receiver. Supplied complete with 3—6SK7, 1—6K8, 1—6SQ7, 1—6F6G, 1—6H6, 1—76 and 1—80 tubes. For 110 volts, 50-60 cycles. Size, 19½"x9½"x10½". Shpg. wt., 40 lbs.

B16302. MODEL SX-24, less speaker.
NET CASH PRICE.

\$6950

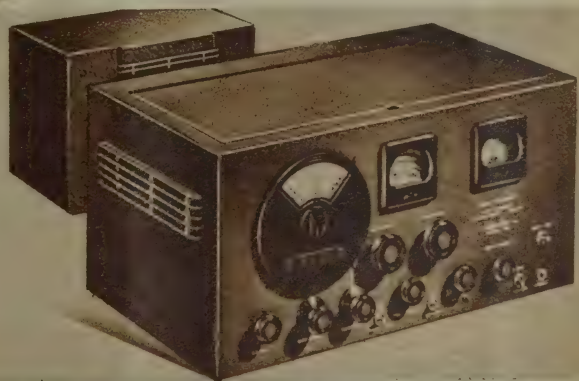
Time Payments: \$6.95 down, \$8.29 monthly for 8 months.

B16303. MODEL SX-24, with speaker. Shpg. wt., 55 lbs.
NET CASH PRICE.

Time Payments: \$8.15 down, \$6.48 monthly for 12 months.

B16305. PM-23 10" PMSpeaker in matching metal cabinet for SX-24.
NET.

\$12.00



THE "SUPER DEFIANT" SX-25

Created by the Hallicrafters laboratories in response to popular demand, it's a "world-beater" for value! Designed and built with typical Hallicrafters precision, the 12-tube Super Defiant has a full tuning range from 540 KC to 42 MC, with Frequency-Meter tuning. Among its many desirable features are: Illuminated "S" meter, calibrated in "S" units and DB. Six-step selectivity with crystal filter, Automatic Noise Limiter, Drift-compensated oscillator, Standby switch with break-in relay terminals, Variable pitch BFO, Antenna input for Marconi or doublet, speaker terminals for either 5000 ohms or 500 ohms, Base-treble tone control, plug-in connection for batteries or vibra-pack, and an absence of background noise that will positively amaze you! Front panel controls are: Main tuning, Bandspread tuning, Crystal phasing, RF gain, Selectivity control, Automatic Noise Limiter, Tone switch, Standby switch, and BFO control. Two tuned RF stages provide greater selectivity and sensitivity, and the six-step selectivity control provides any desired degree of selectivity from needle sharp for CW to broad high-fidelity for 'phone. The SX-25 is supplied complete with tubes and with 10" PM speaker in metal cabinet to match the receiver. Finished in attractive gray wrinkle, it's as distinctive in its modern styling as it is in performance. Size: 19½" long, 9½" high, 11½" deep. For operation from 110 volts, 50-60 cycles AC. Shpg. wt., 60 lbs.

B16304. "SUPER DEFIANT" SX-25.
With tubes, speaker, and crystal.

NET CASH PRICE.

\$9950

Terms: \$9.95 down, \$7.91 monthly for 12 months.

139

hallicrafters



HT-11 12 WATT MARINE RADIOPHONE

A complete, moderately-priced ship-to-shore radio transmitter and receiver. Marine-designed. Receiver uses modern 7-tube circuit with 1-6SK7 RF stage, 1-6K8 Mixer, 1-6SK7 IF, 1-6SQ7 Detector-AVC-Audio, 1-6G6G Audio Amplifier, 2-6X5G rectifiers which also serve the transmitter section. Receiver has only three controls; 2-position bandswitch, tuning, and volume. Band 1 covers standard Broadcast; Band 2 covers the marine channels. Built-in speaker has ample volume for satisfactory use as standard broadcast receiver. Transmitter can be operated on three frequencies in the marine band of 2000 to 3000 KC. Uses 1-6V6 as crystal oscillator, 1-807 as RF power amplifier, and 2-6V6G modulators. Channel selector switch is conveniently placed on front panel; filament switch provided for standby during non-operating periods. Speaker-headphone switch permits connecting output of receiver from speaker to headphone section of handset during transmission. Handset has built-in push-button for turning carrier off and on; receiver is automatically shut off when carrier is switched on. The HT-11 is housed in a compact metal cabinet for shelf or desk mounting; measures only 14 1/4" wide, 8 3/4" high, and 9 1/4" deep. Complete power supply is in separate unit connected to receiver-transmitter by means of cable supplied. Complete with tubes and handset, less crystals. Shpg. wt., 50 lbs.

B16309, HT-11. For 110 volt 60 cycle AC.

NET CASH PRICE

Time Payments: \$14.95 down, \$11.88 monthly for 12 months.

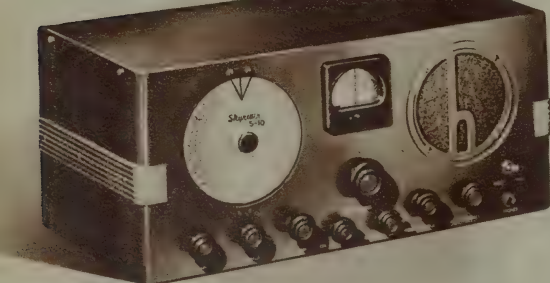
B16308, HT-11. For 6 or 12 volt DC (specify voltage).

NET CASH PRICE

Time Payments: \$15.95 down, \$12.68 monthly for 12 months.

\$149.50

\$159.50



THE FAMOUS SKYRIDER 5-10

Famous for its consistent and reliable performance at all times, the Skyrider 5-10 has established an enviable reputation in the field of UHF communication work. Designed specifically to provide the maximum possible efficiency in operating performance, the 5-10 covers only the UHF range of from 27,000 KC to 68,000 KC. This total tuning range is divided into two bands, Band 1 covering the 27,000 to 42,000 KC range, and Band 2 which covers the remaining range from 40,000 to 68,000 KC. The Skyrider 5-10 is ideal for the Amateur operator specializing in five and ten meter operation, for Municipal Department two-way communication systems, or wherever special requirements call for high-efficiency reception in this portion of the UHF spectrum. Modern, improved circuit uses an 18S2 tube in the RF amplifier, offering better than 1 microvolt sensitivity. 1600 KC IF amplifier provides a band width of 30 KC at 10 times down. This unusual combination of sensitivity and selectivity is only one of the features which make the Skyrider 5-10 outstanding in this particular field. Among its many other features are: Noise Silencer, AVC switch, Send-Receive switch, RF and AF gain controls, BFO, Tone Control, BFO Pitch Control, built-in speaker, speaker-muting type headphone jack, etc. Efficient 8-tube circuit uses: 1-18S2, 1-6L7, 1-6J5, 1-6K7, 1-6P7G, 1-6F6G, 1-6H6, and 1-80. Separate bandspread dial provides easy, accurate logging and is equipped with back-lash-free inertia tuning control. Equipped with simple plug and socket arrangement for operation from 6-volt storage battery and "B" batteries or from vibrator power pack for use at location remote from AC lines, or in case of emergency. The Skyrider 5-10 is housed in a handsome metal cabinet of modern design and sturdy construction. Complete with matched set of tubes, built-in speaker, and instruction manual. For 110 volt, 50-60 cycle AC. Shpg. wt., 34 lbs.

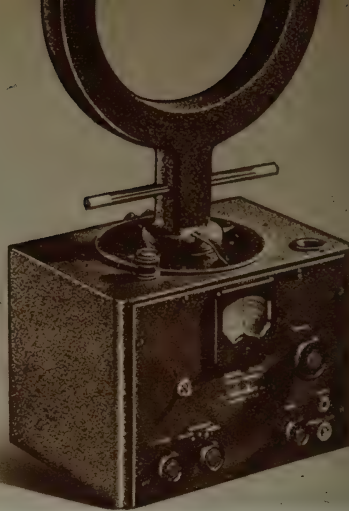
B16306, SKYRIDER 5-10 MODEL S-21.

NET CASH PRICE

Terms: \$6.95 down, \$8.29 monthly for 8 months.

\$69.50

140



MODEL S-30 RADIO COMPASS

A vital necessity on board all lake or coastal craft, the S-30 radio compass and direction finder will enable you to check your position and location in a hurry. The sensitive headphones and tuning eye serve as indicators when taking bearings. The Model S-30 Radio Compass is built in a welded aluminum cabinet with durable wrinkle finish. Rotatable 12' loop is housed in cast-aluminum casing. Tunes three separate bands; No. 1 covers the 220 to 540 KC Beacon band, No. 2 covers the standard Broadcast band of 535 to 1340 KC, No. 3 covers the Marine band range of 1200 to 3000 KC. Tubes used are: 1-6SK7 tuned RF stage, 1-6K8 Mixer, 1-6SK7 IF Amplifier, 1-6SQ7 2nd Detector and AVC, 1-6G6G Audio output amplifier, and 1-6U5G Tuning Indicator. Controls are: Main tuning, RF and AF gain, Band-switch, and Compass card adjustment. Speaker-headphone switch permits shifting from phones to external speaker as desired. Power supply is vibrapack type in separate case and operates from 6-volt storage battery. Extremely compact, only 11" wide, 10 1/2" deep, and 7 1/2" high; overall height, including loop, is 23 1/2". Complete with tubes, headphones, 6-volt DC power supply, and instructions. Wt., 35 lbs.

B15999, HALLICTRAFTERS MODEL S-30 RADIO COMPASS.

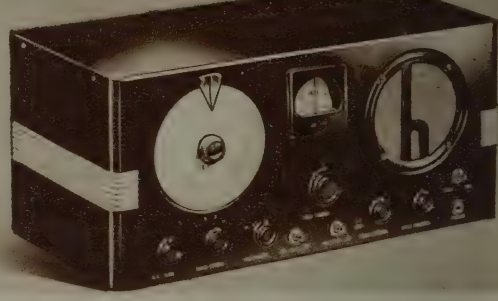
NET CASH PRICE

Time Payments: \$9.95 down, \$7.91 monthly for 12 months.

B15997, External speaker. For use with S-30. 5" PM speaker in matching metal cabinet with connecting cable. **NET** **\$10.00**

B15998, Battery Box. Special batteries and container for use with S-30 where 6-volt battery is not available. **NET** **\$19.45**

\$99.50



THE SKYRIDER MARINE

One of the finest of the Hallicrafters units designed for specialized communication requirements, the original Skyrider Marine received immediate widespread acceptance. Continued improvement in design has produced this improved model which brings a new concept of high performance to even the most exacting and critical operator. For consistently dependable reception in the Marine and Aircraft service, for Jewelers who look for reliable time-signal reception, Press and Relay services, Broadcast and Coastal standby service, the Skyrider Marine is unexcelled. Total tuning range is 140 KC to 18.5 MC (2150 meters to 16.2 meters) available in four over-lapping frequency bands. Greatly improved image rejection at the higher frequencies is achieved through the use of a 1600 KC IF amplifier system. Main tuning dial is directly calibrated over 338 degrees; coupled through slow ratio mechanism to the separate mechanical-bandspread dial to provide easy and simplified tuning. This efficiently designed and ruggedly built communication receiver is mounted in a sturdy metal cabinet finished in smooth black enamel. All metal parts are covered with special plating or finish process for protection against weather or varied climatic conditions. Easily accessible front panel controls are: Tuning control, AVC, BFO, RF and AF gain, Tone, Bandswitch, and Standby switch. Built-in speaker is automatically muted when headphones are plugged into phone jack. For 110 volts, AC-DC operation, but may be also operated from 6-volt storage battery by using an Electronic Model 301 converter. With tubes. Shpg. wt., 31 lbs.

B16307, SKYRIDER MARINE, MODEL S-22.

NET CASH PRICE

Time Payments: \$6.45 down, \$7.69 monthly for 8 months.

\$64.50

HOWARD AMATEUR RECEIVERS



HOWARD "PROGRESSIVE SERIES" RECEIVERS

The Howard "Progressive Series" Plan protects your investment in your receiver, ends trade-in loss and obsolescence! This simple plan enables you to start with a moderate investment and then acquire the most advanced receiving equipment in easy steps in this manner:

Your Model 435 receiver can be converted at a later date to a Model 436 at the factory for only \$12.75, or to a Model 437 for only \$27.55! The Model 436 receiver can likewise be converted to a Model 437 for only \$17.05! You save money the Progressive way!

MODEL 435

The Model 435 is a 6-tube communication type receiver of which any owner can well be proud. Has continuous tuning from 540 KC to 43,000 KC in four frequency range bands; controlled by a range selector switch on front panel. Range indicating pointer at side of multi-scale full-vision dial tells you at all times exactly which frequency range is in use. Full-vision dial is of the slide-rule type with travelling vertical marker for main tuning; separate bandspread indicator dial at side. Bandspread dial can be used to spread out any desired portion of the total tuning range, permitting better reception of stations in closely crowded bands. Features include: Iron-core IF's, Beat Oscillator with adjustable pitch control, Electrical bandspread, AVC, Send-Receive standby switch, Audio gain control, built-in dynamic speaker and power supply, and convenient grouping of all operating controls. Entirely self-contained in a small compact table cabinet. For 110 volts, 50-60 cycles AC. Supplied complete with tubes. Shpg. wt., 25 lbs.

\$2995

B16320. CASH PRICE

\$4.50 down, \$4.50 monthly for 6 months.

MODEL 436

Here is a truly fine little communication receiver that incorporates all of the features of the basic Model 435, yet has additional refinements to make it literally a "stand out" in the medium price class. It features seven tubes with full continuous coverage from 540 KC to 43,000 KC in four ranges. Full-vision slide-rule type dial has band-in-use indicator at one end with bandspread scale at other end. Both main tuning and bandspread tuning controls use new Howard Inertia Knobs to provide fly-wheel tuning for fatiguesless operation. Electrical bandspread can be obtained at any desired point in the tuning range. Built-in dynamic speaker is capable of handling full audio output with exceptional quality. Has external socket for addition of the No. 610 power pack. Efficient noise limiter circuit increases signal-to-noise ratio. Entirely self-contained in a small and compact table model cabinet, black suede wrinkle-finished, trimmed in attractive satin-silver. For 110 volts, 50-60 cycles. Supplied complete with tubes. Shpg. wt., 25 lbs.

\$3995

B16321. CASH PRICE

\$5.95 down, \$6.00 monthly for 6 months.

MODEL 437

The Model 437 is "tops" in the Howard Progressive receiver series. Full 9 tube circuit has a tuned RF stage on all bands! Tuning range from 540 KC to 43,000 KC in four bands, covers all important short wave and experimental frequencies. Selection of desired band is by means of panel band-change switch. The Model 437, like the 435 and 436, is housed in an attractively styled sturdy metal cabinet. Built-in 6" dynamic speaker; muting-type headphone jack is provided to shut off speaker automatically when phones are used. Exceptionally high selectivity is assured by the two iron-core IF amplifier stages; further selectivity for both phone and CW is provided by the crystal filter. The 437 has all controls used in the 436 and in addition is equipped with crystal in-out switch and phasing control. For 110 volts, 60 cycles. Complete with tubes. Shpg. wt., 27 lbs.

B16322. MODEL 437, less \$5450

crystal. CASH PRICE

\$5.45 down, \$6.49 monthly for 8 months.

B16323. MODEL 437, with crystal.

CASH PRICE \$62.00

\$6.20 down, \$7.39 monthly for 8 months.



NEW HOWARD MODEL 490

In this sensational new receiver, Howard engineers have incorporated the rigid mechanical and electrical specifications of government equipment plus outstanding performance with maximum flexibility and simplicity of operation. Attractive blue-grey finished cabinet has silver-grey ventilators and brushed silver escutcheons. Features (too many to enumerate fully here) include: copper-plated steel chassis, temperature compensation ceramic insulation, laboratory-type drum dials, air-tuned iron-core IF's, automatic band-in-use indicator, two stages of RF preselection, calibrated automatic noise limiter, split-stator tuning condensers, tuning range from 540 KC to 43.5 MC in 5 bands, nine positions of IF selectivity, variable fidelity audio system, carrier level meter calibrated in microvolts, and crystal filter. Tubes used: 2-1853 RF, 6SA7 Mixer, 6SA7 HF oscillator, 2-6SK7 IF's, 6H6 Det.-AVC-Noise Limiter, 6SF5 Audio driver, 6J5 Phase inverter, 6J5 BFO, 7E7 Meter amplifier, 2-6K6 Push-pull output, 5U4 rectifier. Size 11" high, 21 1/2" long, 13 1/2" deep. For 105-125 volts, 60 cycles AC. Shpg. wt., 37 lbs.

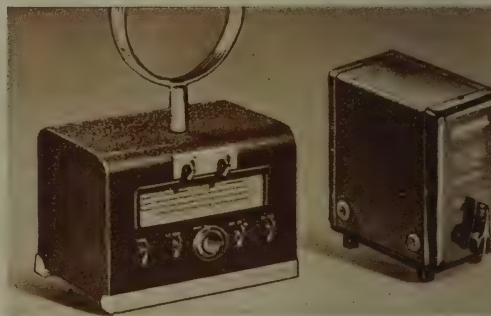
B16324. MODEL 490, with tubes, crystal, and 10" PM speaker in matching cabinet.

\$14950

CASH PRICE

Time Payments: \$14.95 down, \$11.88 monthly for 12 months.

Notes: The Howard 490 is available also for operation from other line voltages or with special long wave bands. Prices and information on special models will be sent promptly on request.



"650" PRESELECTION

Consists of two tuned RF stages, having an extremely high order of usable gain, with exceptional sensitivity to weak signals. Designed so that it may be used with any receiver. Will pep up reception and make many signals that were unreadable on the receiver alone audible at good signal strength. Has provision for use of either single wire in doublet antenna or for the built-in loop with three-position antenna switch. Full tuning coverage from 540 to 43,000 KC. Loop antenna can be rotated through 360 degrees to get most effective directional characteristics to eliminate QRM or unwanted signals. For operation on 110 volts, 50-60 cycles AC. Shpg. wt., 20 lbs. Supplied less loop.

B15975. CASH PRICE \$29.95

\$4.50 down, \$4.50 monthly for 6 months.

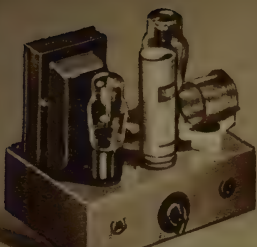
B15976. Set of Loop Antennas. NET \$7.50

"610" POWER PACK

A compact, vibrator-type power supply for use with the Howard Models 435, 436, and 437 receivers when operated at points not supplied with 110 volts 60 cycles AC. Can also be used with other small receivers or for emergency transmitters of low power. Connecting cable has polarized plug to fit socket provided on Howard receivers. Static shield in cable prevents RF pickup and radiation of vibrator noise. RF chokes in plate voltage lead insure quiet operation of receiver at high frequencies. Operates from a single 6-volt storage battery. Supplies 6 volts DC for filaments and 300 volts at 60 ma. When used with Howard 435 receiver, total drain on supply battery is only 6 1/2 amperes; total drain with Model 437 is 7.6 amperes; total drain at full load of 60 ma. is 7 3/4 amps. Shpg. wt., 8 lbs.

B15977. NET \$12.50

THOR DARSON TRANSMITTER KITS



TYPE T22K03

A 20 watt CW transmitter designed for the newcomer in Amateur radio. Simple and easy to assemble and operate, but exceedingly reliable in performance, this little transmitter is similar to hundreds now in use by so-called low-power and "flea-power" stations. Ideal as a starting rig for the beginner, this efficient little rig can also be adapted for use at some later date as a high-stability oscillator in a higher powered transmitter simply by adding an RF amplifier using one of the many moderate power transmitting tubes with low-grid-drive requirements. The circuit used is that of the familiar crystal-controlled tri-tet providing maximum power output from the single 6L6G tube. Will operate on five Amateur bands from 160 to 10 meters and can be operated straight-through on the crystal frequency; or, by doubling in the oscillator plate circuit will also work on two Amateur bands with one crystal. Midget Bud plug-in coils with end-link are used to make band-changing simple and easy. Sturdy power supply furnishes ample voltage and current with excellent regulation; uses 1-80 type rectifier tube. Kit consists of all parts, punched and drilled metal chassis base, and instructions. Accessories not supplied are crystal, coil, and tubes. For 115 V., 60 cycles AC. Shpg. wt., 15 lbs.

B15200. COMPLETE KIT, less accessories. NET.....

\$1323

B15208. Accessory kit. Consists of: 1—RCA 6L6G and 1—RCA 80 tubes, 1—Bud midget plug-in coil (specify band), and 1—Knight 80 or 40 meter crystal with holder (specify which crystal is desired and approximate frequency on order). **NET\$5.20**

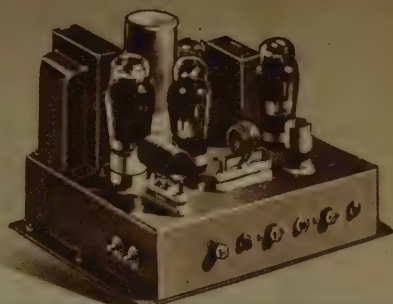


TYPE T22K13

A 10 to 14 watt portable or emergency transmitter to operate from either 110 volt 60 cycle AC line or from 6-volt storage battery. Designed to provide maximum operating stability. Simple and straight-forward in design and operation, a 6V6G crystal-controlled oscillator stage is used to drive a single 807 RF amplifier. Plate input to the amplifier up to 12 watts may be obtained when operated from a 6-volt storage battery for portable or emergency work, with up to 14 watts input when used with regular 115 volt 60 cycle AC supply. May be used on all bands from 160 to 10 meters, using fundamental frequency crystals; doubling is accomplished in the oscillator stage on the higher frequency bands. A single meter with selector switch permits checking plate current of either oscillator or amplifier. High-gain audio section uses 2-6J7 tubes with a single 6V6G modulator; input is for crystal mike. Antenna circuit arranged to permit loading any type of doublet antenna or single wire random length antenna. Switching from AC to battery operation is done by merely changing power cables in power socket at rear. Kit is complete with gray finished metal cabinet, less accessories and crystals. Shpg. wt., 25 lbs.

B15202. COMPLETE T22K13 \$4204 KIT, less accessories. NET.....

B15210. Accessory kit consists of: 1—Mallory 825 vibrator, 1—Triplet 0-100 ma meter, 1-6WSG, 2-6V6G, 2-6J7, and 1-807 RCA tubes, 2-Bud midget coils (specify band). **NET.....\$13.65**



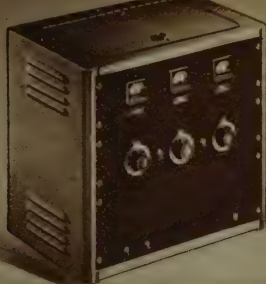
TYPE T22K11

A 12 watt Mobile type transmitter for the Amateur 5 and 10 meter bands. Designed to provide the greatest possible stability and efficiency together with a simplicity of circuit that makes it dependable. RF section consists of a 6V6G oscillator in a crystal controlled tri-tet circuit; uses a 20-meter crystal and doubles to 10 meters in the oscillator plate circuit. RF amplifier uses a T21 as a neutralized amplifier on 10 meters; operates as a second doubler for 5 meter work. A single 6V6G is used as a combination speech-amplifier and plate modulator. Input to modulator is for single-button carbon mike. Power supply uses a 6WSG rectifier and an Electronic No. 427 vibrator; operates from 6 volt storage battery. Power supply adequately filtered, and extra filter is used in mike circuit to prevent any possibility of vibrator hash on modulated carrier. Kit is complete with punched and drilled chassis, all necessary parts except tubes, crystal, and vibrator. Complete instructions for assembly are supplied. Shpg. wt., 25 lbs.

B15201. COMPLETE T22K11 KIT, less accessories. NET.....

\$3646

B15209. Complete accessory kit consisting of 2—RCA 6V6G, 1—RCA 6WSG, and 1—T21 tubes, 1—Electronic No. 427 vibrator, 1—Electro-Voice 202S microphone, and 1—Biley 20-meter crystal (specify frequency) **NET.....\$20.50**



TYPES T22K71 AND T22K73

Compactness and reliability are features of this 55 watt phone and 80 watt CW transmitter. RF and audio sections are separate, and each has its own power supply. RF section, T22K71, uses a 6F6G crystal oscillator, 6L6G buffer-doubler, 809 RF amplifier. Input for CW up to 80 watts. Operates on all bands, 160 to 10 meters. T22K71, RF section kit, is complete with all necessary parts, metal chassis and panel punched and drilled, and instructions. Accessories not supplied include coil forms, crystal, tubes, and meters. For 115 V., 60 cycles AC. Shpg. wt., 50 lbs.

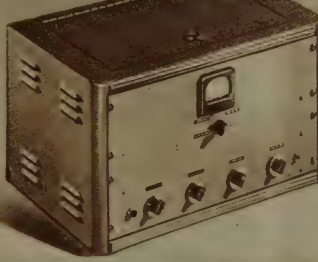
B15205 COMPLETE KIT, \$5468 less accessories. NET.....

B15213. Accessory kit; consists of tubes, 3 Triplett 227A meters, and coil forms. **NET.....\$16.50**

T22K73 KIT, 30 watt modulator kit for converting T22K71 to phone. Uses 2-6J7, 1-6CS, 2-6L6G, and 1-5Z3 tubes. For 115 V. 60 cycle AC. Shpg. wt., 40 lbs.

B15206 COMPLETE KIT, \$34.40 less tubes. NET.....

B15214. Tube kit for T22K73. \$3.75 NOTE. For complete data on above kits ask for free Thor Darsen Transmitter Literature, B15207.



TYPE T22K51

Here is a modern, high-efficiency phone transmitter, designed especially for 5 and 10 meter operation. A 50 watt RF section, together with modulator and husky dual-type power supply, are included as one chassis. Unusually careful design in selection of circuits and mechanical layout result in a completed unit that is free from the many annoying "bugs" usually encountered in UHF gear. The circuit uses a 6L6G oscillator with either a 40-meter or 20-meter crystal, HK-24 buffer-doubler and HK-24 final amplifier. The tri-tet oscillator always operates on the second harmonic of the crystal, and the buffer-doubler stage is operated as a frequency doubler at all times to drive the neutralized amplifier on the output frequency. A single meter with selector switch permits checking plate current of all stages as well as in the modulator. Audio section uses 2-6J7, 1-6N7, and 2-6L6G tubes with input for crystal mike. Power supply uses 1-5Z3 and 2-866 T's. Kit is complete with punched and drilled rack panel and chassis, all necessary parts, and instructions. Accessories not supplied are tubes, crystal, meter and cabinet. For 115 V. 60 cycles AC. Shpg. wt., 40 lbs.

B15204. COMPLETE KIT, \$7409 less accessories. NET.....

B15212. Accessory kit. Consists of all tubes and Triplett 327A 0-150 ma. meter. **NET.....\$17.45**



TYPE T22K37

Here is a complete phone-CW rig that will make an immediate hit with any beginning Amateur or Old Timer. This compact transmitter is capable of 35 watts input for either phone or CW. The incorporation of the RF section, modulator, and power supply, on one small chassis makes for extreme flexibility of operation. The entire unit is housed in an attractive gray finished metal cabinet, making it easily portable if desired. Will operate on five Amateur bands from 160 to 10 meters and is an ideal low power rig for use at home or for portable or Field operation away from the home station. Ideal for use as an auxiliary rig where high power transmitters are kept permanently on one band. Simple but efficient circuit uses a 6V6G crystal oscillator driving a 6L6G neutralized RF amplifier. Audio section uses a 6A6 as speech amplifier driving a 6A6 Class B modulator; input is for single button carbon mike; no mike batteries required as mike current is obtained from internal circuit. Power supply uses a 5Z3. Kit consists of all parts, punched metal chassis and panel, cabinet, and instructions. Accessories not supplied consist of tubes, meter crystal, and Bud midget plug-in coils. For 115 volt, 60 cycle AC. Shpg. wt., 30 lbs.

B15203. COMPLETE KIT, \$4263 less accessories. NET.....

B15211. Accessory kit. Consists of all tubes, Triplett 227A 0-150 ma. meter, 2 Bud midget plug-in coils (specify band). **NET.....\$7.85 143**

30-M MOBILE HF TRANSMITTER

A complete high-frequency radio-telephone transmitter for use in the 28 to 42 MC frequency range in easy-to-assemble kit form. Ideal for use by Amateurs or by Mobile-Emergency or Law enforcement groups. Uses only four low-drain quick-heating tubes (3—HV69, 1—6A4) and operates entirely from a six-volt storage battery. Plate voltage obtained from heavy-duty DC generator (not supplied). Oscillator is type HV-69 with tri-tet circuit; plate circuit operates at twice crystal frequency. Modulated amplifier also operates as frequency doubler; plate input up to 32 watts is possible with recommended plate supply generator. Output is low-impedance with variable coupling for concentric cable feed to antenna. Microphone circuit is arranged for single-button carbon microphone with push-to-talk relay control or for microphone-receiver handset if desired. Kit includes all parts with punched chassis and dust-cover. Complete literature, B15255, free on request. **B15253. STANCOR 30-M KIT.** Less tubes, crystal, meter, generator, and microphone. Shpg. wt., 50 lbs. **\$41.00**

NET PRICE.

B16184. Pioneer Type FSF-25 generator. **NET. \$33.52**

B9600. Electro-Voice 202S Push-to-talk mike. **NET. \$7.35**

MODEL 10-P PHONE-CW TRANSMITTER

An easy-to-assemble little phone-CW rig that has made a hit with many a beginning Amateur and Old Timer. It's small and compact—but it packs a real wallop on any band from 160 down to 10 meters. Uses 1—6J5 as crystal oscillator, 1—6L6 as RF amplifier, and 1—6L6 as combined speech-amplifier-modulator. Only one inexpensive Bud Midget coil required for each band (see coil listing on page 159). Plate input up to 12 watts for phone, 20 watts for CW. Low impedance output for connecting to link line or direct to 72 ohm antenna feed line. Kit contains all parts necessary, including cabinet. Accessories (not supplied) are: 1—6J5, 2—6L6, and 1—80 tubes, 1—Triplet 2" square-type 0-100 ma. meter, crystal, and plug-in coils. Operates from 110 volts, 60 cycles. Shpg. wt., 17 lbs. **B15250. STANCOR 10-P, less accessories. \$21.00**

NET PRICE.

**STANCOR
TRANSMITTER
KITS**

STANCOR 60-P TRANSMITTER KIT

The 60-P combines the ability to "go places" with moderate cost. Operates on all Amateur bands, 10 to 160 meters, with up to 60 watts input for either phone or CW. Inexpensive plug-in type Bud midget coils (see listing on page 159) are used for both oscillator and amplifier stages. Oscillator is 6L6, with HK24 amplifier; output for 72 ohm antenna line. High-gain audio section with crystal mike input uses 1—6SJ7, 1—6N7, and push-pull 6L6's as modulators. Dual rectifier type power supply uses 1—5Z3 and 1—RK60. Kit includes all necessary parts except accessories consisting of tubes, crystal, Triplet 3" square 0-200 ma. meter, plug-in coils, and cabinet. Easy to assemble and wire, following Stancor's exclusive "point-to-point" wiring instructions. For 110 volts, 60 cycles. Shpg. wt., 50 lbs.

B15251. STANCOR 60-P KIT, less accessories \$44.80

NET PRICE.

B14765. Gray cabinet for 60P. Wt., 30 lbs. **NET. \$7.35**

STANCOR 110-CM TRANSMITTER KIT

The 110-CM is a 100 watt five-band phone-CW transmitter featuring cathode modulation. Because of the saving in audio power requirements for cathode modulation, greater RF carrier power is possible from the same equipment than would be possible with other types of modulation. The 110-CM uses a 6L6 crystal oscillator and an 812 amplifier, with up to 100 watts input for phone, or 110 watts for CW. The audio system uses 1—6SJ7, 1—6C5, and 2—6V6 as push-pull modulators, with sufficient gain to use a crystal microphone. Dual rectifier type power supply uses 1—5Z3 and 1—RK60. Coils for both the oscillator and amplifier are Johnson 100 watt plug-in type as listed on page 160. All parts supplied except tubes, coils, 1—0-200 ma. 3" square meter, crystal, and cabinet. For 110 volts, 60 cycles. Wt., 50 lbs.

B15252. STANCOR 110-CM KIT, less accessories. \$48.75

NET PRICE.

B14765. Gray cabinet for 110-CM. Wt., 30 lbs., **NET. \$7.35**



ECHOPHONE MODEL EC-1

Here's good news for the Amateur and SWL! At last it's possible to buy a complete 6-tube communication receiver at a price never before believed possible! Not a kit—but a complete, factory-assembled set, supplied ready to operate. Designed and produced by a famous builder of communication receivers, the Echophone "Commercial" embodies many desirable features of receivers selling at much higher prices. The Echophone tunes over three full frequency bands with a total range from 545 KC to 30.5 MC (550 to 9.85 meters). It has electrical bandspread to spread out the tuning in the crowded short-wave bands. Main tuning dial is calibrated in megacycles with all important service bands clearly indicated; separate logging scale is for use with bandspread tuning control. The Echophone "Commercial" is housed in a sturdy metal cabinet finished in attractive gray wrinkle lacquer, with the self-contained speaker mounted under the top panel; all controls in easy-to-reach position on the front panel. Controls are: Main tuning knob, Bandsread tuning knob, Band-switch, Audio gain, Standby switch, Speaker-headphone switch, and combined Beat Oscillator and AVC on-off switch. Antenna terminals at rear for doublet antenna. Separate tip-jacks at rear of set for headphone use. Tubes used are: 12K8, 12SK7, 12SQ7, 35L6GT, 12J5, 35Z5. Size, 7 1/2" high, 10 1/2" wide, 7 3/4" deep. For 110 volts AC or DC. Shpg. wt., 15 lbs. Completely assembled—ready to operate.

B16313. ECHOPHONE "COMMERCIAL" EC-1. \$19.95

Complete with tubes.

NET PRICE.



MEISSNER SIGNAL SHIFTER

An unusually flexible and highly efficient electron-coupled frequency control unit. Has an RF output of 7 1/2 watts. Link output circuit can be coupled to any stage in the transmitter. Ingenious three-way control switch permits "Standby," or "Manual On," or "Automatic" at the discretion of the operator. Operates by means of regular transmitter control switch through operation of a built-in relay when connected to plate transformers and set to "Automatic" position. "Manual On" position permits checking the operating frequency at will in order to QSY to desired frequency. Voltage regulated. Built-in key click filter. Supplied with 80 meter coils. Uses: 1—6F6, 1—6L6, 1—5X4G, 1—VR150, and 1—VR105 tubes. For 110 volts, 50-60 cycles. Shpg. wt., 35 lbs.

B15231. Black finish. Less tubes. \$44.00

B15232. Gray finish. Less tubes.

CASH PRICE.

Terms: \$4.44 down, \$5.26 monthly for 8 months.

B15225. Black. With RCA tubes.

B15230. Gray. With RCA tubes.

CASH PRICE.

Terms: \$4.65 down, \$5.55 monthly for 8 months. **\$46.55**

ADDITIONAL COILS

B15220. 160 Meter coils. **B15223.** 20 Meter coils.

B15221. 80 Meter coils. **B15224.** 10 Meter coils.

B15222. 40 Meter coils. **\$2.45**

NET, PER SET.

TRANSMITTING ANTENNA EQUIPMENT

FAMOUS PREMAX VERTICAL ANTENNAS

Formed high-tensile copper-nickel steel tubing, heavily cadmium-plated to resist weathering. Telescopes to allow accurate adjustment to transmitting frequency. Clamps rigidly together. Hi-Q type mounts without insulators to chimney or roof parapet. Chimney clamp makes installation fast and easy. Others are self-supporting on special design base insulators.

B16000. Hi-Q Vertical Antenna for 10 meters. Wt., 20 lbs. **\$10.29 NET.**
B16001. Chimney Bracket for Hi-Q antenna. Wt., 14 lbs. **NET. \$3.82**
B16002. 318M. 10 Meter self-supporting vertical. 17 ft., 3 section, with 2P24 base-mounting insula- **\$7.35**
 tor. Wt., 12 lbs. **NET.**
B16003. 136M. 20 meter self-supporting vertical. 34 ft., 6 section, with 1P44 insulator. 29 lbs. **\$17.64 NET.**

POLICE MOBILE ANTENNAS

For police and amateur mobile work. Tapered one-piece radiators are oil-tempered steel. Bend like a fine spring, eliminating breakage when passing under bridges, etc. .001 cadmium plating prevents corrosion. Mounting bracket clamps on bumper of car. Easily altered to fit cowl. Glazed-ceramic cone insulators. Wt., 5 lbs.

No.	Type	Length	NET
B16004	NC-172	72"	\$4.26
B16005	NC-178	78"	4.41
B16006	NC-184	84"	4.56
B16007	NC-190	90"	4.70
B16008	NC-196	96"	4.85

PYREX INSULATORS

Strong, genuine Pyrex glass insulators for all types of antenna installations. Extremely low surface conductivity.

B3750. 3 3/4" long. For R.F. use up to 250 watts. **20c**
B3751. 7 1/4" long. For R.F. use up to 1000 watts. **75c**

FEEDER SPREADER

White porcelain spreaders for open wire transmission lines. 1/2" wide by 1/4" thick. Use 6" spreaders with No. 12 wire for 600 ohm lines. Shpg. wt.—3", 4 oz.; 6", 6 oz.
B6218. 3" spacing. **NET EACH..... 3c**
B6219. 6" spacing. **NET EACH..... 14c**

ANTENNA INSULATORS

Made of strong white porcelain. Low capacity and long leakage path. All 1" diameter.

B3415. 7 Inches long. **20c**
NET EACH.....
B3416. 12 Inches long. **29c**
NET EACH.....
B3417. 20 Inches long. **39c**
NET EACH.....

AMPHENOL CO-AXIAL CABLE

For carrying R.F. current inches or miles with minimum losses. Surge impedance 72 ohms, matches a half wave antenna. Construction consists of polystyrene beads on No. 12 solid copper wire, covered with tightly woven copper shield. Can be bent on a 1" radius without bending center conductor because of ball and socket design of beads. Weighs only 1 oz. per foot. No. 72-12 with double cotton impregnated outer braid; No. 72-12W has synthetic resin weatherproof covering.
B14143. No. 72-12 PER FT. **NET. 29c**
B14144. No. 72-12W PER FT. **NET 53c**

CO-AXIAL CABLE CONNECTORS

Insulation is Amphenol "912." Outer protective shell is chrome-plated machined brass. Male and female elements are interchangeable, and are removable for easy wiring. Chassis type mounts in 1 3/16" hole, supplied with lock washer and lock nut. Fits cables to 3/8" diam. Shpg. wt., 6 oz.
B14145. Male Cable type. **NET..... 88c**
B14146. Female Cable type. **NET..... 88c**
B14147. Female Chassis type. **NET..... 73c**

JOHNSON "Q" ANTENNAS



Provides a considerable increase in radiated power over conventional doublet or Zepp antennas. Accurate matching of line and antenna impedance is provided by use of quarter-wave matching section of aluminum tubing. Can be fed by open wire system up to several hundred feet in length. Includes hard-drawn antenna wire, center assembly, 2 coils 1/2" aluminum tubing, "Q" section spacers, and insulators.

B13850. 100. 10 Meter Kit. **NET. \$4.62**
B13851. 200. 20 Meter Kit. **NET. 7.20**
B13852. 400. 40 Meter Kit. **NET. 13.29**
B13853. 800. 80 Meter Kit. **NET. 24.70**
B13854. 5Q. 5 Meter Kit. **NET. 4.12**

ANTENNA INSULATORS

High-grade, wet process, white glazed porcelain. Low moisture absorption; long leakage path. 1" diameter; famous for quality.

B13805. Type 107. 7" long. **NET. 4.1c**
B13806. Type 112. 12" long. **NET. 5.3c**
B13807. Type 120. 20" long. **NET. 8.8c**

STRAIN INSULATORS

White glaze low absorption porcelain. Type 32 is for use in light guy wires or receiving antennas. Type 38 is especially designed for R.F. use.

Cat. No. **Type** **Fig.** **Lgth.** **EACH 10 for**
B13808 32 A 1 1/2" 4 1/2c **41c**
B13809 38 B 1 1/2" 9c **85c**

FEEDER SPREADERS

For use in all types of feeder lines, either transposed or non-transposed. Made of low absorption white glazed porcelain. Type 31 (Fig. B) prevents twisting. For 2" line spacing. Others are 3/8"x1/2" bars.

Cat. No. **Type** **Fig.** **Length** **NET**
B13810 31 B 1 1/2" 9c
B13811 132 A 2" 5c
B13812 134 A 4" 12c
B13813 136 A 6" 15c

COPPERWELD SOLID ENAMELED ANTENNA WIRE

Steel core with welded copper covering. High conductivity; no corrosion. Available in continuous lengths up to 1500 feet on order.

Gauge	100 Ft.	NET	200 Ft.	NET
14	B13864	\$0.73	B13865	\$1.45
12	B13867	1.12	B13868	2.22
10	B13870	1.62	B13871	3.20

HARD-DRAWN SOLID ENAMELED WIRE

Gauge	100 Ft.	NET	200 Ft.	NET
14	B3455	42c	B3456	\$0.80
12	B3453	61c	B3454	1.17
10	B3450	94c	B3451	1.85

SOLID TINNED COPPER WIRE

Cat. No.	Gauge	25 Ft.	50 Ft.	100 Ft.
B2345	14	13c	26c	\$0.50
B2346	12	19c	38c	.75
B2347	10	28c	56c	1.10

GENUINE EO-1 CABLE

Will handle power output up to 2000 watts, 72 ohm surge impedance. Two No. 12 solid copper conductors, cellulose and rubber-insulated, with overall mica-filled weatherproof braid.

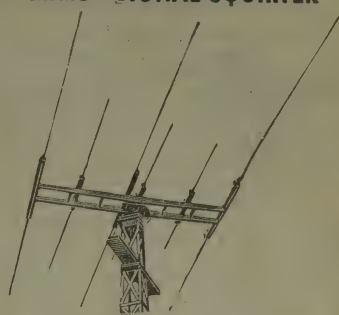
No.	Per Foot	100 Feet	250 Feet
B2328	3 1/2c	\$2.94	\$6.99

CARDWELL COAXIAL BEADS

For constructing 3/4" copper or brass concentric line. Aismag 196 beads .295" diam. for No. 12 wire. Enough for 50 feet of line.

B13740. Package of 250. **\$1.38 NET.**

MIMS "SIGNAL-SQUIRTER"



One of the finest antennas ever developed. Puts your signal where you want it with maximum efficiency. Mechanically built to stand far more abuse than will ever be met with in actual service. Fully tested to withstand winds of hurricane velocity. Deluxe Rotator is smooth working and husky. Center piece is fashioned from hardwood for lifetime service. Kits easily assembled and erected in a few hours from instructions supplied. Less direction indicator and motor control cable.

Note: All Signal-Squitter Products are shipped F.O.B. from Texarkana, Texas.

B16020. Dual 3 element for 10 and 20 meter operation. **\$159.00**

NET CASH \$15.90 down, \$12.64 mo. for 12 months.

B16021. 3 Element 20 Meter Deluxe. **NET CASH. \$124.50**

\$12.45 down, \$9.90 mo. for 12 mos.

B16022. 2 Element 20 Meter Deluxe. **NET CASH. \$116.50**

\$11.65 down, \$9.26 mo. for 12 mos.

B16023. 3 Element 10 Meter Deluxe. **NET CASH. \$116.50**

\$11.65 down, \$9.26 mo. for 12 mos.

B16024. 2 Element 10 Meter Deluxe. **NET CASH. \$110.00**

\$11.00 down, \$8.75 mo. for 12 mos.

B16025. Deluxe Rotator only. **\$69.50**

Net FOB Factory \$6.95 down, \$8.29 mo. for 8 mos.

"SIGNAL-SQUIRTER" ANTENNA ELEMENTS ONLY

The finest rotary beam antenna elements available. In use everywhere. Made of finely corrugated, copper-plated tensile steel, telescope-tapered and finished with three coats synthetic enamel; ends sealed. No sag. 20 meter rods 16 1/2 ft. long, taper from 1 1/2" to 3/4". 10 meter rods 8 1/2 ft. long, taper from 1" to 7/8". Securely crated, shipped FOB Texarkana, Tex.
B16026. 2-20 Meter Elements. **NET. \$6.50**
B16027. 4-20 Meter Elements. **NET. 11.50**
B16028. 6-20 Meter Elements. **NET. 17.00**
B16029. 2-10 Meter Elements. **NET. 3.00**
B16030. 4-10 Meter Elements. **NET. 5.75**
B16031. 6-10 Meter Elements. **NET. 8.50**

Literature B12422 FREE on request.

OHMITE D-100 DUMMY ANTENNA

Designed to take the guesswork out of transmitter tuning. Special 100 watt resistor maintains constant resistance and impedance at high Radio Frequencies; glass-enclosed and plugs into standard 4 prong socket. Used with R.F. ammeter, it permits accurate checking of output and efficiency of transmitter or of individual stations. Write for descriptive bulletin B8352.

B8350. D-100. 73 ohm. **NET EACH.....**

B8351. D-100. 600 ohm. **\$3.23**

B8354. D-250. 73 ohm. 250 Watt Dummy Antenna. **EACH..... \$6.47**

LEAD-IN INSULATORS

For use with transmitter or receiver lead-in or feed systems. Vitrified glazed porcelain cones on threaded rod.

B6138. 10" rod with cone insulators and water-tight washers. **NET..... 53c**

B6139. 15" rod with cone insulators and water-tight washers. **NET..... 59c**



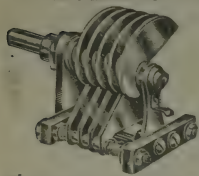
NATIONAL

Short

FAMOUS NATIONAL CONDENSERS

RECEIVING CONDENSERS

TYPE SE



Straight line frequency plates, 270° rotation. Isolantite insulated. Plates and frame are aluminum; two bearing rotor with front bearing insulated to prevent noise. Rotor contact is through constant impedance pigtail. Type SEU 15, 20, and 25 mmf. condensers have thick plates with rounded and polished edges and are suitable for high voltages. All other types have cut plates; edges are not polished. Air-gaps are as follows: for SE types—.026"; for SEH types—.018"; and for SEU types—.055". Av. shpg. wt., 1 lb.

Cat. No.	TYPE No.	Cap. MMF.	No. of Plates	NET EACH
B15450	SEU-15	15	6	\$1.50
B15451	SEU-20	20	8	1.60
B15452	SEU-25	25	9	1.65
B15453	SE-50	50	11	1.80
B15454	SE-75	75	15	1.95
B15455	SE-100	100	20	2.10
B15456	SE-150	150	29	2.25
B15457	SEH-200	200	27	2.25
B15458	ST-150	150	39	2.40
B15459	SEH-300	300	39	2.40
B15460	SEH-335	335	43	2.55

TYPE ST

Similar to SE types above, but with 180° Straight-Line Wave-length plates, and more compact in size. Air-gaps are as follows: Types STHS, STH, and STHD—.018"; Types STD and ST—.026". STHS types have single bearing, others are double-bearing. Av. shpg. wt., 1 lb.

Cat. No.	TYPE No.	Cap. MMF.	Plates	EACH
B15461	STHS-15	15	3	\$0.84
B15462	STHS-25	25	4	0.86
B15463	STHS-50	50	9	0.90
B15464	ST-35	35	9	0.90
B15465	ST-50	50	11	1.08
B15466	ST-75	75	15	1.20
B15467	ST-100	100	20	1.35
B15468	ST-140	140	28	1.50
B15469	ST-150	150	27	1.50
B15470	STH-200	200	27	1.80
B15471	STH-250	250	32	1.80
B15472	STH-300	300	39	1.95
B15473	STH-335	335	43	2.10
B15474	STD-50	50-50	11-11	2.10
B15475	STHD-100	100-100	14-14	2.70

TYPE TMH-35D CONDENSER

A special UHF type split-stator condenser. Isolantite insulated. 3000 volt spacing. Max. cap. per sec., 35 mmf., min., 6 mmf. **\$2.70**

B15477. TMH-35D. NET.....

EXPERIMENTERS' TYPE CONDENSERS



A superior low-priced midget condenser for SW set builders. Sturdy, all-brass construction with bakelite insulation. Rotor and stator plates easily removed. Single hole mounting. Av. shpg. wt., 1 lb. *Double spaced; others single.

Cat. No.	MMF.	Type	EACH
B15480*	15	EX-15	51c
B15481*	25	EX-25	51c
B15482*	35	EX-35	60c
B15483	50	EX-50	54c
B15484	100	EX-100	60c
B15485	140	EX-140	75c

ULTRA-MIDGETS



For Ultra H.F. use in receivers and transmitters, for padding or neutralizing. Shaft extends at rear for ganging. Isolantite base. Wt., 1 lb.

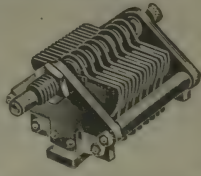
Cat. No.	MMf.	Type	NET
B15486	15	UM-15	\$0.75
B15487	35	UM-35	.90
B15488	50	UM-50	.96
B15489	75	UM-75	1.02
B15490	100	UM-100	1.14

DOUBLE-SPACED

B15491	25	UMA-25	1.11
B15492	25	UMB-25	1.11

TRANSMITTING CONDENSERS

TYPE TMS

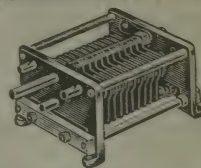


Precision type condensers for low-power stages of transmitters. Air-gaps: .026" for TMS types; .065" for TMSA. *Low C condensers are rated at 2000 V. Peak; others are 1000V. Peak. Conical front bearings; single ball thrust, radial rear bearing. Isolantite insulation. Av. wt., 2 lbs.

No.	TYPE	MMF.	Plates	NET
B15495	TMS-100	100	10	\$1.50
B15496	TMS-150	150	14	1.65
B15497	TMS-250	250	23	1.80
B15498	TMS-300	300	27	2.16
B15499	TMS-50D	50-50	5-5	2.25
B15500	TMS-100D	100-100	9-9	2.70
B15501	TMSA-35	35	8	1.80
B15502	TMSA-50	*50	11	1.95
B15503	TMSA-50D	50-50	11-11	2.40

TYPE TMC MODERATE POWER

For use in power stages of transmitters where peak voltage does not exceed 3000 V. Extremely rigid frame. Full Isolantite insulation. Aluminum plates have beveled edges; air-gap is .077". *Dual Stator.



No.	TYPE	MMF.	Plates	NET
B15505	TMC-50	50	7	\$2.40
B15506	TMC-100	100	17	2.70
B15507	TMC-150	150	21	3.15
B15508	TMC-250	250	32	3.60
B15509	TMC-300	300	39	3.90
B15510	TMC-50-D	50-50	*7-7	3.90
B15511	TMC-100-D	100-100	*13-13	4.50
B15512	TMC-200-D	200-200	*25-25	6.00

TYPE TMA HEAVY-DUTY

Isolantite insulation. Aluminum plates. Peak voltage of air-gaps: .077-3,000 V.; .171-6,000 V.; .265-9,000 V.; .359-12,000 V. *Double Stator.

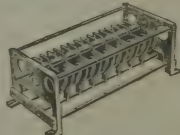
Cat. No.	TYPE	Cap. MMF.	Air-Gap	NET
B15515	TMA-300	300	.077	\$7.20
B15516	TMA-200D	*200-200	.077	9.00
B15517	TMA-50A	50	.171	3.90
B15518	TMA-100A	100	.171	6.00
B15519	TMA-150A	150	.171	7.20
B15520	TMA-230A	230	.171	9.60
B15521	TMA-100DA	*50-50	.171	7.20
B15522	TMA-100DA	*100-100	.171	10.50
B15523	TMA-100B	100	.265	8.10
B15524	TMA-150B	150	.265	10.20
B15525	TMA-60DB	*60-60	.265	11.10
B15526	TMA-50C	50	.359	4.80
B15527	TMA-100C	100	.359	8.70
B15528	TMA-40DC	*40-40	.359	8.10

ROTOR CLAMPING DEVICE

B15530. For clamping rotor shaft of TMA or TMC Transmitting Condensers. NET...51c

TYPE TML

Have self-cleaning rotor contact; thick capacitor plates with rounded edges. Cast aluminum frames and dural tie bars. Isolantite insulated. Peak voltage of air-gaps: 219°-7,500 V.; 346°-10,000 V.; 469°-15,000 V.; 719°-20,000 V.



Cat. No.	TYPE	Cap. MMF.	Air-Gap	NET
B15533	TML-75E	75	.719°	15.60
B15534	TML-150D	150	.469°	15.90
B15535	TML-100D	100	.469°	14.15
B15536	TML-50D	50	.469°	9.90
B15537	TML-245B	245	.344°	17.10
B15538	TML-150B	150	.344°	15.60
B15539	TML-100B	100	.344°	15.00
B15540	TML-75B	75	.344°	10.80
B15541	TML-500A	500	.219°	21.00
B15542	TML-350A	350	.219°	16.80
B15543	TML-50A	250	.219°	16.80
B15544	TML-30DE	30-30	.719°	15.90
B15545	TML-60DD	60-60	.469°	17.10
B15546	TML-100DB	100-100	.344°	18.90
B15547	TML-60DB	60-60	.344°	16.50
B15548	TML-200DA	200-200	.219°	21.00
B15549	TML-100DA	100-100	.219°	17.10

NEUTRALIZING CONDENSERS

TYPE NC-600

A small-sized neutralizing condenser suitable for use with 6L6's and similar beam power tubes. Has adjustment range from .5 mmf. to 5 mmf. Isolantite insulated. Shpg. wt., 6 oz. **\$27c**

B15550. NC-600U. As above but on small stand-off insulator. NET....33c.

DISC TYPE

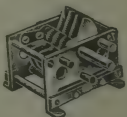
High voltage neutralizing condensers. Micrometer adjustment with lock nut. Adjustable to less than 2 mmf. Low-loss Isolantite insulation. Three hole mounting bracket. NC-800 is for RCA-800, 35T, HK54 and similar tubes; NC-150 for HK-354, RK-36, 100TH, 852, etc.; NC-500 for WE251A, 250TH, etc.



No.	Type	Max. Cap.	NET
B15552	NC-800	10	\$1.80
B15553	NC-150	12	3.90
B15554	NC-500	12	7.50

TYPE TCN

A heavy-duty neutralizing condenser with a peak voltage rating of 6000 volts. Maximum capacity 25 mmf. For use with 203A, 852, 204A and like tubes.



B15555. NET.....\$2.40

TYPE STN

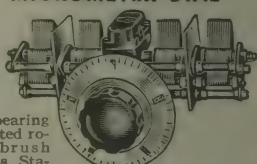
Suitable for neutralizing the type HK-24, T20, or similar tubes. Isolantite insulated. Max. cap., 18 mmf. Peak voltage breakdown, 3000 volts. Supplied with two stand-off insulators.



B15556. NET....\$1.20

PRECISION GANGED CONDENSER WITH MICROMETER DIAL

A precision condenser assembly for H F circuits. Ruggedly built, with four bearing shaft. Insulated rotors have brush type contacts. Stator insulated with Steatite. Has 2 to 1 worm drive. Straight-line frequency plates. Shpg. wt., 6 lbs.



No. of Sections	160 Mmf. Per Sec.	225 Mmf. Per Sec.	NET EACH
2	B15560	B15563	\$12.00
3	B15561	B15564	14.40
4	B15562	B15565	16.50

SINGLE SECTION UNITS

B15566. 150 Mmf. B15568. 350 Mmf. EACH
B15567. 200 Mmf. B15569. 500 Mmf. \$9.00

Complete Drive Units. Consists of enclosed worm drive and micrometer dial only. Type NPW-O is for drive shafts at right angles to panel; type PW-O for parallel drive shafts. B15570. Type NPW-O. **\$8.10**
B15571. Type PW-O. EACH.....

SHAFT COUPLINGS

B15575. TX-9 A small condenser shaft coupling. Hubs fit 1/4" shaft. Insulation is Steatite. **66c**



B15576. TX-10. Similar to TX-9 but has bakelite insulation. NET.....33c.

TYPES TX-11 & TX-12

Flexible shaft with 1/4" hubs for driving offset shafts up to 90 degrees. No backlash. TX-12 has Isolantite insulated hubs.

B15577. TX-12. NET.....75c.

B15578. TX-11. Plain hubs, not insulated. NET.....36c.

TYPES TX-1 & TX-2

For use with transmitting condensers in high voltage circuits. Insulation is of glazed Isolantite. Hubs will fit any 1/4" shaft. Wt., 8 oz. B15579. TX-1. 1" leakage path. **60c**
B15580. TX-2. 2 1/2" leakage path. **66c**





NATIONAL R-100 RF CHOKE

Ideal for high frequency circuits. Extensively used in receivers and low-power stages of transmitters. Has continuous 4 section universal winding on Isolantite form. Distributed capacity is only 1 mmfd. 2½ mh., 125 ma., 50 ohm DC resistance. Shpg. wt., 2 oz. ea.

B15433. YOUR PRICE.....30c
B15434. R100U. As above but on small stand-off insulator for vertical mounting; lug terminals. **NET.....36c**
B15435. R300. Similar to R-100. 1 mh., 300 ma., 10 ohm DC resistance. **NET.....30c**
B15436. R300U. Same as R300 with stand-off for vertical mounting. **NET.....36c**

X-MITTING CHOKES

Universal chokes with honeycomb-type windings. Rated at 600 ma., continuously. Inductance, 4 mh., 10 ohms DC resistance. R152 for 80 and 160 meters. R154 for 20, 40, and 80 meters. 1 mh., 6 ohms.

B15437. R152.
B15438. R154. **\$1.35**
NET EACH.....

B15439. R154U. For 20, 40 and 80 meter bands. Five section honeycomb type coil on Isolantite core, with solder lugs. Rated at 600 ma. continuous, 1 mh. inductance, 6 ohms DC resistance. Shpg. wt., 1 lb. **\$1.05**
NET.....

JACK SHIELD

Cadmium-plated metal shield for small standard jacks. Mounts on rear of panel. Held in place by bushing of jack. Connecting wires feed through holes in sides. Used to shield extension cord connection or pin jack mounting in ¾" hole. Shpg. wt., 2 oz.

B15440. Type JS-1. NET.....21c

CHART FRAMES

Solid nickel silver frame with celluloid window. Stamped from single piece of metal. Four holes in corners of frame for mounting. Dimensions given below are outside measurements.

No.	Size	Shpg. Wt.	NET
B15441	2¼"x3¼"	3 oz.	30c
B15442	3" x4"	3 oz.	36c
B15443	3¾"x4"	3 oz.	42c

INTERLOCKING PUSH SWITCH

Double pole, double throw push button units for switching coils, crystals, etc., in low power transmitters, buffers, etc. Low resistance silver-plated contacts. Ultra-low-loss R-39 insulation. Designed especially for NTE exciter. For panel mounting.

B15444. Type ACS-4. Assembly consists of four DPDT switches mounted on metal sub-panel. Complete with trigger bar. When any switch is pushed "on," others automatically thrown "out." **\$3.00**
 Shpg. wt., 2 lbs. **NET.....**

B15445. Type ACS-1. Single section DPDT switch identical to above, but less trigger bar. Ideal for all types of low power circuit breaking, where low resistance contacts and ultra-low-loss insulation are important. Shpg. wt., 8 oz. **NET.....75c**

LOW FREQUENCY OSCILLATOR COIL

Two separate inductances, closely coupled, in aluminum can. Used in super-regenerative sets as interruption-frequency oscillator. Sec. Inductance, 6.25 mh. Tunes to 100 KC with .00041 mfd. condenser. Wt., 5 oz.

B15446. NET.....90c

NATIONAL COILS AND COIL FORMS

TYPE AR-16 INDUCTORS



A new series of low-loss air-spaced coils for use in exciters, buffers, and low power finals. Victoron-insulated. All the sizes listed will tune over their respective bands, and all have separate windings for link coupling as listed. All fit XB16 socket B15391 (not supplied). Shpg. wt., 10 oz.

End Link No.	Center Link No.	Swing Link No.	Amateur Band	Mmf. Cap.
B15395	B15401		160	65
B15396	B15402	B15407	80	60
B15397	B15403	B15408	40	55
B15398	B15404	B15409	20	40
B15399	B15405	B15410	10	25
B15400	B15406		5	20

NET EACH.....90c

FIXED TUNED EXCITER TANK



Ideal for use in multi-band exciters using bandswitching. Aluminum case, 4¼ x 2½ x 2", contains two 25 mmfd. 2000 Volt condensers and XR-2 coil form 1½" long. 1" diam. Plug-in base fits tube sockets. Aluminum shield isolates condensers; tunes from top. Wt., 6 oz.

B15415. TYPE FXTB. 5 Prong.
B15416. TYPE FXTB. 6 Prong. **\$2.94**
NET EACH.....

B15417. TYPE FXT. Without **\$2.70**
 plug-in base. **NET.....**

PLUG-IN COIL BASE AND SHIELD



New National combination of plug-in coil base and shield, especially suited for mounting condensers and coils when it is desirable to have them shielded, yet easily removable. Shield can measure: 2"x2½"x4½". Special low-loss base is available in 5 or 6 prong types. PB-10 is complete with shield; PB-10A without shield. Wt., 8 oz.

Stock No.	Type	Prongs	NET
B15418	PB-10	5	45c
B15419	PB-10	6	45c
B15420	PB-10A	5	24c
B15421	PB-10A	6	24c

TUBE AND COIL SHIELDS



High grade non-magnetic aluminum shields. Coil shield measures 3" dia. x 3¼" high and is offered alone or with mounting base. Tube shield includes cap and mounting base and is suitable for tubes such as 57, 58, 77, etc. Shpg. wt., 4 oz. ea.

B15422. B30. Coil Shield Only. **21c**
NET.....
B15423. B30. Coil Shield with Base. **30c**
NET.....
B15424. T58. Tube Shield. **24c**
NET.....

GRID & PLATE CLIPS



Unique construction assures perfect continuous contact with grid or plate cap of tube.
B15425. For Standard Glass Tubes.
B15426. For All Octal Base Tubes. **3c**
NET EACH.....
B15427. For Transmitting Tubes, such as 866, T20, 809, 03Z, 812, etc. **6c**
NET EACH.....

SAFETY PLATE GRIP



SPG Safety Grip of molded R-39. For tubes with ¾" cap, like 866, etc.
B15430. NET.....21c

WE CAN SUPPLY ALL NATIONAL PRODUCTS not listed on these pages. Order by manufacturer's number, and we will ship promptly. NATIONAL Catalog, B15585, sent free on request.

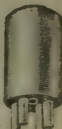
RECEIVER COIL FORMS



Low-loss R-39 forms which are extremely popular with Amateurs and Experimenters. Easy to work. Fingergrip. 1½" dia., 2¼" long. Wt., 4 oz.

B15375. 4 Prong.
B15376. 5 Prong. **EACH.45c**
B15377. 6 Prong.

MIDGET FORMS



Small coil forms designed with excellent form factor, contributing to high efficiency in H.F. circuits. Of R-39 composition, forms are machinable so that experimenters may groove and drill them to suit individual needs. XR-1 and XR-2 forms measure: 1" dia. x 1½" long; wall thickness, ¼". XR-1 form has four prongs; others are plain. Wt., 3 oz.

B15378. XR-1. 4-Prong. **30c**
NET.....
B15379. XR-2. Without Prongs. **21c**
NET.....
B15380. XR-3. ¾" dia. x ¾" long. Without Prongs. **18c**
NET.....

PLUG-IN COIL FORM AND SOCKETS



This completely new UR-10A coil form and socket assembly consists of the XR-10A coil form for 20 and 40 meters and the Isolantite Plug-in Base and Socket. Five prong base easily attached to coil form by means of two screws. Base may also be used separately for air-wound coils. Socket and five mounting jacks complete with special attachments for mounting on TMA condensers if desired. Wt., 1½ lbs.

B15381. TYPE UR-10A. Coil Form Assembly. Complete. NET...\$2.76
B15382. TYPE PB-15. Plug-in Base Only. Wt. ½ lb. NET.....81c
B15383. TYPE XB-15. Socket Only. Wt. ½ lb. NET.....\$1.05

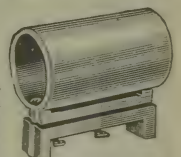
TRANSMITTER FORMS



Grooved and drilled ceramic forms for winding low-loss transmitter coils. Will make your home-made coils look professional. XR10A form measures: 2½" winding dia. x 5" long. XR-14A is 5" diameter. Both forms will fit the PB-15 plug and XB-15 socket above.

B15384. XR-10A. 20 or 40 meter bands. Shpg. wt., 1 lb. NET.....90c
B15385. XR-14A. 80 meter band. Shpg. wt., 2 lbs. NET.....\$2.10

BUFFER COIL FORM AND SOCKET



A new Isolantite, low-loss coil form assembly, 1½"x2¼" long. Plug with five prongs is easily attached to coil form by two screws. Socket is equipped with five rugged side-wiping contacts. Plug and socket are made of R39 low-loss insulation. Shpg. wt., 10 oz.

No.	Type	Description	NET
B15386	UR-13	Complete Assembly	\$1.50
B15387	UR-13	Coil Form only....	.66
B15388	PB-5	Coil Plug only....	.45
B15389	XB-5	Coil Socket only....	.45

COIL FORMS



Unglazed Isolantite forms. 1½" winding dia. x 1¼" long. Drilled for leads. Socket type XB-16 also fits all AR-16 coils. Plug, socket, and coil form are available separately or as complete assembly as listed. Wt., 8 oz.

No.	Type	Description	EACH
B15390	PB16	Plug.....	24c
B15391	XB16	Socket.....	30c
B15392	XR16	Coil Form.....	36c
B15393	UR16	Complete Unit	90c

NATIONAL SHORT WAVE EQUIPMENT

NATIONAL SOCKETS

UNIVERSAL MOUNTING TYPE



Unusually adaptable universal Isolantite socket. May be mounted in several ways by means of stand-off insulator and metal flange supplied. Has full pin-wiping terminals which do not extend above top of socket and cannot cause shorts. Shpg. wt., 4 oz.

No.	Prongs	No.	Prongs
B15300	4	B15303	7 M
B15301	5	B15304	7 S
B15302	6	B15305	8 Octal

List Each, 40c
NET EACH.....**24c**

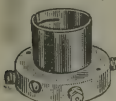


LOW-LOSS TYPE

Isolantite sockets for use in H.F. receivers and in low power stages of mixers. 6 prong socket for National Coils is square; others are as illustrated. Shpg. wt., 4 oz.

No.	Prongs	No.	Prongs
B15307	4	B15310	7 M
B15308	5	B15311	7 S
B15309	6	B15312	8 Octal

NET EACH.....**36c**
B15371, 6 prong (For Coils).....**45c**



TRANSMITTING TYPE SOCKETS

A fifty watt socket with glazed ceramic insulation, side-wipe contacts, and bayonet-lock metal shell. Has binding post terminals. Shpg. wt., 12 oz.

B15314, XM50, NET.....**\$1.05**
B15315, XM10. Like above but for tubes using the type UX base. NET.....**75c**



ACORN TUBE SOCKETS

B15317, For use with Triodes. Five contact clips on Isolantite base. Shpg. wt., 3 oz.

NET EACH.....**90c**
B15318, For Pentodes. Has copper base with all contacts by-passed to ground. NET.....**\$1.20**

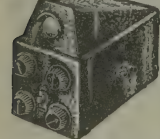
POWER PENTODE SOCKETS

An efficient large wafer-type Isolantite socket for the RK28 and RCA 803 power pentode tubes. Has three point mounting and side-wiping contacts. Shpg. wt., 5 oz.

B15319, NET.....**\$2.16**

B15320, As above, but less stand-off insulators. NET.....**\$1.80**

CATHODE-RAY OSCILLOSCOPE TYPE CRM



Complete oscilloscope for use with "913" cathode ray tube. Brilliance and Sweep Amplitude controls on front panel. Built in power supply. Has 60 cycle sweep circuit; provisions for external sweep. Easily read patterns. Graphically shows xmitter operating conditions. Measures A.C. and R.F. voltage; phase-inversion, phase angle, and phase distortion; harmonic content; checks phone signals for percent modulation; overall frequency response and condenser power factor tests, etc. Requires: 1-913 tube with 1" screen; 1-6X5 rectifier. Size 4 1/2 x 6 1/2 x 8". For 110 V., 50-60 cycles. Shpg. weight, 9 lbs.

B10317, Less tubes. NET.....**\$11.10**
B10318, R.C.A. Tube Kit. NET.....**\$4.86**

4-IN-1 CRYSTAL HOLDER



New pressure type holder accommodates 4 crystals and has built-in low-capacity switch for selecting frequencies. Holds crystals up to 1" square. For use where immediate choice of frequencies is desirable. Has prongs for plug-in mounting. Wt., 1 lb.

B15321, NET.....**\$4.50**

NATIONAL DIALS

TYPE "B" 4"

A compact dial with a smooth variable ratio drive. Dial scale is read through a window. Bakelite case. For 1/2" shaft.

B15325, 0-100-0, 180°. Rotates in either direction.

B15326, 200-0, 360° clockwise. Wt., 1 lb. **\$1.65** EACH.....

B15327, Illuminator for dial, with bracket. Wt., 1/2 lb. NET...**30c**



TYPE "BM" 3"

Similar to the "B" dial, but smaller. Has fixed ratio vernier. For 1/2" shaft. Wt., 1 lb.

B15328, 0-100-0, 180°, universal.

B15329, 200-0, 360° clockwise. **\$1.50** EACH.....

TYPE "N"

Precision dials, with machine-derived scales and verniers of solid Nickel Silver. Dial is 4" in diameter with a smooth planetary mechanism; 5 to 1 ratio. For 1/2" shaft. Shpg. wt., 2 lbs.

B15330, 0-100, 180°, counter-clockwise.

B15331, 100-0, 180°, clockwise.

B15332, 150-0, 270°, clockwise.

B15333, 200-0, 360°, clockwise. **\$4.05** EACH.....



TYPE "HRO" 1 1/2" DIAL

B15334, Neat etched silver dial as used on the HRO receivers. Marked 0-10 over 180° clockwise. 1 1/2" diam.; for 1/4" shaft. Shpg. wt., 8 oz.

B15335, HRP-P. Bar knob as used on "HRO" dial. 1 1/4 x 1/2". With pointer. **21c** NET.....

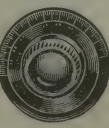


TYPE "A" 4" DIAL

Smooth "Velvet Vernier" dial, free from backlash. Self-contained mechanism. Ratio 5:1. For 3/4" shaft. Wt., 1 lb.

B15336, 0-100, 180° Counter Clockwise.

B15337, 150-0, 270° Clockwise. **\$1.80** EACH.....

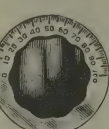


TYPE "O" 3 1/2" DIAL

B15338, Attractive circular-grained Nickel Silver dial. 3 1/2" diam. Reads 0-100 over 180° C.C. Large fluted finger-grip knob for easy tuning. Fits 1/2" shafts. Wt., 1 lb.

NET.....**90c**

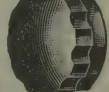
B15339, ODD. Vernier drive knob for type "O" dial drive. NET.....**36c**



"HRK" KNOB

Large, full-grip tuning knob for use with receivers, transmitters, etc. 2 3/8" in diameter with fluted edge. Easy to use; non-tiring. Fits 1/2" shafts. Wt., 4 oz.

B15340, NET.....**51c**



STEEL CABINETS

Rugged steel cabinets for receivers and laboratory equipment. Panels and sub-bases un-drilled. Black wrinkle finish. With sub-base and bottom cover. Average shpg. wt., 5 to 10 lbs.

No.	Type	Size	NET
B10306	C-SRR	7 1/2 x 7 1/2	\$2.10
B10307	C-FB7	11 1/2 x 8	4.20
B10308	C-PSK	6 x 8	3.60
B10309	C-SW3	9 3/4 x 7	3.30
B10310	C-110	11 x 7	2.70
B10311	C-HWR	13 1/2 x 7	3.00
B10312	C-HRO	16 1/2 x 8 3/4	5.10
B10313	C-NC100	17 1/4 x 8 3/4	5.10

NATIONAL INSULATORS



B15345, TYPE AA-3. Steatite feeder spreaders. 6"-spacing; 3/8" dia. Shpg. wt., 2 oz.

B15346, TYPE AA-5. Aircraft compression type strain insulator. Shpg. wt., 2 oz. NET EACH.....**18c**

B15347, TYPE AA-6. Steatite. Length, 4 1/4"; 1/2" dia. NET.....**21c**

STAND-OFF INSULATORS

Molded steatite insulators. Glazed to prevent moisture absorption. Fig.



"A" are Stand-off Insulators, complete with mounting base and top cap—1/2" dia. size have solder lug and screw; 3/4" dia. have heavy binding screw. Fig. "B," Cone Insulators, for mounting parts on metal chassis: threaded 8-32 at both ends. Fig. "C," Feed-Through Insulators, have flange type steatite base, 1 1/2" mounting centers. Shpg. wt., 8 oz.

No.	Type	Fig.	Hgt.	Dia.	NET
B15350	GS-1	A	1 1/2"	1 1/2"	15c
B15351	GS-2	A	2 1/2"	1 1/2"	21c
B15352	GS-3	A	2 1/2"	1 1/2"	56c
B15353	GS-4	A	4 1/2"	1 1/2"	96c
B15354	GS-4A	A	6"	1 1/2"	96c
B15355	GS-5	B	1 1/2"	1 1/2"	18c
B15356	GS-6	B	2"	1 1/2"	27c
B15357	GS-7	B	3"	1 1/2"	45c
B15358	GS-8	C	1 1/2"	1 1/2"	21c
B15359	GS-9*	C	1 1/2"	1 1/2"	30c

*Has jack for standard banana plug.

H.F. BUSHINGS

Efficient, low-loss Steatite bushings for bringing H.F. leads through partitions or window-panes, supporting coils, etc. Wt., 1 oz.

B15360, XS1, 1" x 1 1/4". Per Pair.....**45c**

B15361, XS2, 1 1/2" x 1 1/4". Per Pair.....**54c**

XS6 H.F. BUSHING

Small Steatite shoulder-type flat bushing, 3/4" diam., 3/8" thick with 1/2" hole. Wt., 1 oz.

B15362, NET EACH.....**9c**

NEW SMALL PARTS



B15363, Fig. A. Through Point Bushing. Of molded Victrol with threaded shank and 0.03" conductor in center. Shpg. wt., 1 oz.

NET, BOX OF 12.....**45c**

B15364, Fig. B. FWC Insulators. Molded R-39. Will mount two FWE jacks or FWA posts. Fit chassis or panel up to 1/4". NET PER PAIR.....**21c**

B15365, Fig. C. FWA Binding Post. Jack top for banana plugs; hole for positive clamping of wire leads and husky screw top.

NET EACH.....**15c**



B15366, Fig. A. FWE Jack. Banana plug type especially suited for use with the FWC insulators listed above. Fit any panel or insulator strip up to 1/4". Shpg. wt., 1 oz.

NET.....**9c**

B15367, Fig. B. FWF Plug. Molded R-39 with banana plugs spaced 3/4". Takes leads through top or sides; set screws hold leads firmly. Use FWE jacks or FWA posts.

NET.....**60c**

B15368, Fig. C. FWD Assembly. Consists of FWF plug, two FWE jacks, and two FWC insulator strips. When plugged together, all metal parts are insulated for safety.

NET.....**96c**

AUDIO COUPLER

For coupling output of screen grid detector to grid of audio tube. Consists of 700 henry plate coupling choke, .01 coupling condenser, and 25 megohm resistor in metal case.

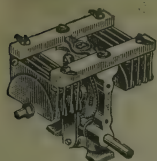
B15370, \$1.01-**\$3.60** NET.....





JAMES MILLEN PRODUCTS

TRANSMITTING CONDENSERS CENTER DRIVE

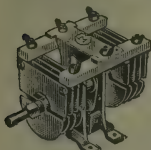


An entirely new design in condensers which puts control shaft at center of rotor. Dependable worm drive provides vernier action. Permits symmetrical layout. Split stators insulated by Isolantite bars. .040" polished plates with rounded edges. Shpg. wt. 2 1/2 lbs.

Peak voltage, 3000.

No.	Type	Mmf.	Airgap	NET
B14039	11035	35	.077	\$5.75
B14040	11050	50	.077	5.95
B14041	11070	70	.077	6.50

END DRIVE TYPE



Same as Center Drive type but direct from end of rotor shaft. Plate thickness, 13000 Series, .040"; all others, .050". Dual sections; connect sections in parallel to eliminate shorted frame loops in single ended stages. Has split insulated stators.

No.	Type	Mmf.	Airgap	NET
B14042	13035	35	.077	\$ 3.80
B14043	13050	50	.077	4.35
B14044	13070	70	.077	4.90
B14045	14200	200	.077	6.50
B14046	*14100	100	.171	10.00
B14047	*14050	50	.171	6.00
B14048	*14060	60	.265	10.00

*6000 V. rating. †9000 V. rating.

DUAL MIDGETS



Compact midgets for receivers or low power transmitters. Double spaced, ultra-high frequency type. Insulation is ultra-low-loss. Quartz Q dielectric. Aluminum mounting feet. Shpg. wt., 8 oz.

B14050. 24935. Dual 35 Mmf. NET EACH. \$2.10

B14051. 24100. Dual 100 Mmf. NET EACH. \$2.10

ULTRA-MIDGETS



Extremely compact midget condensers for receivers, oscillators, etc. Isolantite end plate mounts directly on panel. Rotor may be insulated from panel. Wt., 8 oz.

B14052. 20015. 15 Mmf. NET.....60c

B14053. 20035. 35 Mmf. NET.....75c

B14054. 20050. 50 Mmf. NET.....85c

B14055. 20100. 100 Mmf. NET...\$1.15

NEUTRALIZING CONDENSERS



Fig. "A," for medium and low power, has ultra-low-loss Quartz Q insulation. Fig. "B," heavy-duty type, has air dielectric, mounted on Isolantite stand-off. Both types have metal mounting bases for vertical mounting. Compact but efficient. Shpg. wt., 8 oz. approx.

B14056. *15001. 7-4.3 Mmf. NET.....75c

B14057. *15002. 5-13.5 Mmf. NET. 95c

B14058. *15003. 5-13.5 Mmf. NET. 95c

B14059. *15004. 5-13.5 Mmf. NET. 95c

†Fig. "A"—5000 V. †Fig. "B"—4000 V.

†Fig. "B"—6000 V.

STEATITE INSULATOR BUSHINGS



Molded of genuine steatite. For all HV or RF leads. Wt., 2 oz.

B14030. For 1/4" hole. NET 20c

B14036. For 3/8" hole. NET 30c

B14037. For 1/2" hole. NET.....35c

CRYSTAL SOCKET



For crystal holders with 3/4" pin spacing. Wt., 4 oz.

B14038. NET.....25c

ISOLANTITE PLATE CAP

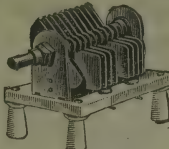


Provides protection against high voltage. Fits 866, 2032, etc. Genuine Isolantite. Wt., 3 oz.

B14035. Large. For 866, etc. NET 21c

B14034. Small. For 807, etc. EA. 21c

TRANSMITTING CONDENSERS "12000" SERIES



Condensers "Designed for Application." Compact and rugged. Inexpensive. Insulating bars are of genuine isolantite. Steatite standoffs supplied for chassis mounting. Rotor and stator plates are extra-heavy .040" aluminum. Ideal for close-plate-spacing circuits. *Plain edges. †Round polished edges. Wt., 3 lbs.

SINGLE SECTION

No.	Type	Mmf.	Airgap	NET
B14012	†12935	37	.176"	\$3.60
B14013	*12936	37	.176"	3.25
B14014	*12536	43	.077"	3.00
B14015	*12551	55	.077"	3.25
B14016	*12576	76	.077"	3.50
B14017	*12510	101	.077"	3.00
B14018	*12515	151	.077"	3.75

DUAL SECTION

No.	Type	Mmf.	Airgap	NET
B14019	†12035	43	.077"	\$3.60
B14020	*12036	43	.077"	4.25
B14021	*12050	55	.077"	3.60
B14022	*12051	55	.077"	3.60
B14023	*12075	76	.077"	5.50
B14024	*12076	76	.077"	4.50

"DESIGNED FOR APPLICATION"



Fig. A. Socket shield for single-ended tubes in high-gain amplifiers. Effective electro-static shield. Shpg. wt., 5 oz.

B14025. NET.....18c

Fig. B. "Snap action" easy-acting base clamp for 807 and similar tubes. Prevents tubes from "working" out of sockets. Wt., 6 oz.

B14026. NET.....30c

Fig. C. Centric type shaft lock for screw driver adjusted controls. Maintains shaft in fixed position. Reset easily for adjustments. Shpg. wt., 6 oz.

B14027. NET.....36c

Fig. D. Isolantite bushing. Fits 1 1/4" hole. For high voltage and RF leads. Locks in place with drop of solder. Shpg. wt., 3 oz.

B14028. Pkge. of 5. NET.....25c

Fig. E. Dial lock to maintain condenser setting in fixed position. Shpg. wt., 4 oz.

B13986. NET.....35c



Fig. F. Molded bakelite terminal block with 4 terminals. Nut and bolt type connectors with raised bakelite separators between each terminal. Easy-to-get-at solder lugs extend from base of block. Convenient 2-hole mounting. Ideal for use in all power supplies. Wt., 4 oz.

B13987. NET.....55c

Fig. G. Bakelite safety terminal for high voltage. All metal parts enclosed in bakelite case. Insulated bushing extends through chassis. Tapered contact. Shpg. wt., 3 oz.

B13988. NET.....35c

Fig. H. Mica-bakelite safety terminal. Same as bakelite type but with higher factor of safety.

B13989. NET.....45c

SHAFT COUPLINGS



Fig. A. Flexible coupling. No back lash. Drives at angles to 45°. Isolantite insulated. For 1/4" shafts. Wt., 3 oz.

B14061. NET.....36c

Fig. B. Standard flexible type. For 1/4" shafts. Isolantite insulation. Wt., 3 oz.

B14062. NET.....36c

Fig. C. Insulated flexible type. Hubs slide back and forth, twist, etc., without backlash. For 1/4" shafts. Wt., 3 oz.

B14031. NET.....36c

THE HETROFIL



Suppresses any interfering signal or audio beat note. When two CW stations are heard at the same time, rejects either signal and accepts the other. Removes audio beat note. Connected in output of receiver without use of tubes. Used with any receiver. Provides selective control for TRF. Used with super-regenerative receivers to remove interruption frequency from output. Wt., 1 lb. \$3.50

B14000. Type 90721. NET.... \$3.50

MIDGET R.F. CHOKES

Universal 2.5 MH. Choke.

Consists of four pie coils on a steatite core. Supported by its own leads or mounted with steatite stand-off insulator supplied. Wt., 2 oz.

B14001. Type 34100. NET....36c

IRON-CORE R.F. CHOKES

500 MH. transmitting type chokes.

Ideal for high power at 14 MC. Consists of five pie coils on steatite with iron core. Has spun-glass insulated wire. With metal mounting lugs for soldering lugs.

Shpg. wt., 5 oz.

B14002. Type 34150. \$1.75

TRANSMITTER DIAL

Heavy-gauge nickel silver dial. 0 to 100 etched numerals. Large black bakelite hub insulates metal scale from shaft. Overall dia. 3 1/2". Finger-grip type knob. Shpg. wt., 1 lb.

B14005. Type 10008. NET.....90c

TUNING KNOBS

Similar to above but 1 1/2" dia. Etched numerals are 0 to 100. Black bakelite hub insulates nickel-silver scale from shaft. Shpg. wt., 8 oz.

B14006. Type 10007. NET.....45c

DISC DIAL

For condensers with shafts at right angles to front panel. Has 10 to 1 ratio. Dial readings, 0-100. Disc is 3 3/4" in dia. Shaft extends behind panel for fly wheel. Front plate is black molded bakelite. Shpg. wt., 1 lb. Type 10011.

B14004. \$2.25

NET.....

RIGHT ANGLE DIAL

Drum-type dial for use with Millen Gear Drive Unit (B14060). May also be used with flexible shafts or ganged units with shaft parallel to panel. White numeral drum may be internally illuminated. 0 to 100. Black bakelite panel. Wt., 2 lbs. Type 10001.

B14003. NET...\$1.85

GEAR DRIVE UNIT

Right angle worm-gear drive with 16 to 1 ratio. For mounting tuning condensers with rotor shaft parallel to panel. Cast aluminum frame; 1/4" shaft. No backlash. Wt., 1 lb. Type 10000.

B14060. NET.....\$3.00

STEATITE TUBE SOCKETS

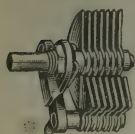
Higher steatite body provides maximum insulation between contacts and chassis. Shpg. wt., 4 oz.

No.	Contacts	NET EACH
B14007.	4	24c
B14008.	5	
B14009.	6	
B14010.	7-large	34c
B14011.	8-octal	24c

WE CAN SUPPLY ALL MILLEN ITEMS
Write for Millen Catalog B14063.

Hammarlund Precision PRODUCTS

FAMOUS "STAR" MIDGET CONDENSERS

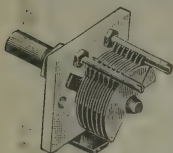


Popular low-priced midgets for set builders and experimenters. Sizes for short wave tuning, regeneration, verniers, etc. Single hole mount, 1/4" shaft. Size, 1 1/2" x 1 1/4" high, and up to 1 7/8" deep behind panel, depending on capacity. Shpg. wt., 6 oz.

No.	Type	Mmf.	List	NET
B5328	SM-15	15	\$0.85	51c
B5329	SM-25	25	.85	
B5330	SM-50	50	.90	54c
B5331	SM-100	100	1.00	60c
B5332	SM-140	140	1.25	75c
B5333	SM-35X	35*	1.00	60c
B5335	SM-50X	50*	1.25	75c

*Double-spaced units with .064" airgap for use in low-power transmitter circuits.

"HF" MICRO CONDENSERS



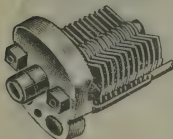
A new series of ultra-high frequency variables. Very efficient in tuning or trimming critical high frequency circuits. Cadmium plated plates. Isolantite insulation. Equipped with special wide front bearing. *Dial-spaced units. Shpg. wt., 4 oz.

No.	Type	Plates	Max. Mmf.	NET
B5585	HF-15	5	17.5	\$0.75
B5586	HF-35	10	35	.90
B5587	HF-50	14	50	.96
B5588	HF-100	27	100	1.14
B5589	HF-140	37	140	1.35
B5590	*HF-15-X	10	15	.96
B5591	*HF-30-X	20	30	1.11

"HFD" DUAL MICROS

No.	Type	Cap. per Sec.	NET
B5437	HFD-50	50	\$1.65
B5438	HFD-100	100	1.95
B5439	HFD-140	140	2.25
B5436	*HFD-15-X	16	1.80
B5440	*HFD-30-X	28.5	1.95

"APC" MICRO CONDENSERS



High quality air-dielectric condensers; compact in size. Particularly adaptable to S.W. and Ultra S.W. work. Isolantite base. Air gap .015". Will fit 1 1/4" diam. cans. Screwdriver adjustment. Wt., 4 oz.

No.	Type	Max. Mmf.	Min. Mmf.	NET
B5324	APC-25	25	3.0	\$0.78
B5325	APC-50	50	3.9	.90
B5326	APC-75	75	4.5	1.02
B5327	APC-100	100	5.5	1.14
B5442	APC-140	140	6.5	1.35

NEW "SWF" LOW-LOSS COIL FORMS



Rugged low-loss forms of XP-53. Ribbed for air-spacing, with flange grips. Have shelf inside for mounting padding condenser. 1 1/2" dia. x 2 1/4". Natural amber color. 4 oz.

B5371, 4 Prong. } EACH...21c

B5372, 5 Prong. } EACH...24c

B5373, 6 Prong. } EACH...24c

"TCF" X-MITTING COIL FORMS

Of low-loss XP-53 dielectric. Ribbed for air-spacing; with flange grips. May be base-mounted on brackets supplied or plugged-in. 2 1/4" dia. x 3 3/8" long. Shpg. wt., 4 oz.

B5379, TCF-4, 4 Prong. } EACH...42c

B5380, TCF-5, 5 Prong. } EACH...42c



CF-M COIL FORM

Isolantite coil forms designed for maximum efficiency at ultra-high frequencies. Forms are 1 1/2" in diameter, 2" long exclusive of prongs, and have holes drilled to permit almost any type of experimental winding. Made in 5-prong type only. Ideal for coils tuning 28 and 56 MC bands. Shpg. wt., 4 oz.

B5382, NET...60c

HAMMARLUND CHOKES

MIDGET CH-X CHOKE



For receivers and transmitters. Adaptable to many uses in even the smallest space. Universal-winding. Entirely impregnated. Center core is of Isolantite. May be mounted by its own leads in any position. D.C. resistance, 35 ohms. 2.1 MH at 125 MA. 1 1/2" x 1/2".

B5344, List, 30c. NET...30c

TYPE CH-8

A low-loss 8 MH. R. F. choke ideal for short-wave receivers and transmitters. Section wound on compact Isolantite spool. Moisture-proof windings are protected by lacquer and cellophane. Equipped with flexible leads and reversible end brackets for universal mounting. D.C. resistance, 70 ohms. Current rating 125 MA. 1 1/2" x 1/2". 4 oz.

B5343, List, \$1.10. NET...66c

CH-250 CHOKE



Low-loss compact R.F. chokes for low power X-mitters and receivers. Suitable for all Amateur bands down to 10 meters. Four universal wound impregnated pies on 1/4" Isolantite core. 250 M.A. current rating; 1 MH inductance; 10 ohms D.C. resistance. Only 1/4" in dia.; 1 1/2" long. Shipping weight, 4 oz.

B5336, List, 50c. NET...30c

X-MITTING CHOKE—CH-500

A heavy-duty choke for parallel feed in high-powered transmitters in 10-20-40-80-160-meter bands. Has universal-wound pies on Isolantite core. Inductance, 2 1/2 MH; D.C. resistance, 8 ohms. 500 MA. continuous rating. Size: 1 1/2" dia. x 2 1/2" long. Wt., 6 oz.

B5345, List, \$1.75. NET...\$1.05

RFC-85 CHOKE



High inductance choke for use in plate circuits of all B.C. and S.W. receivers. Specially wound and impregnated; extremely low distributed capacity for maximum efficiency. Inductance, 85 MH; D.C. resistance, 215 ohms. Max. current rating, 60 MA. Bakelite case is 1 1/2" high and 1 1/2" in dia. Wt., 8 oz.

B5349, List, \$2.25. NET...\$1.35

STANDARD SOCKETS



Low-loss Isolantite sockets. Have long leakage paths. With positive rust-proof side-gripping contacts and mounting pillars. Glazed top and sides. Standard 1 1/2" mounting centers. 4 oz.

B5339, 4 prong. } NET EACH 36c
B5340, 5 prong. }
B5341, 6 prong. }
B5342, 7 prong (Medium). }
B5348, 7 prong (Small). }
B5337, 8 prong (Octal). } 45c

NEW UHS-900 ACORN SOCKET

Locks tube in place for mounting in any position. Has silver-plated beryllium contacts; "Iso-Q" super Isolantite; base metal grounding plate for complete shielding. 1 9/16" dia.; 1 3/16" mtg. centers. 4 oz.

B5594, List, \$1.10. NET...66c

TYPE XS-2

CRYSTAL SOCKET



Mounts inside the SWF coil forms at left, for Crystal Oscillator or Tritet Oscillator stages of transmitters. Isolantite; two special reinforced contact clips. 1 1/8" diam. Fits all plug-in crystal holders with 1/8" pin centers.

B5595, NET...30c

HAMMARLUND TRIMMING AND PADDING CONDENSERS

"EC" EQUALIZERS



For balancing, neutralizing and trimming purposes. Mica dielectric; bakelite base. 1 1/4" x 1 1/8". Adjusting screw in center. Shpg. wt., 2 oz.

B5374, 3-35 MMF. List, 30c. NET...18c

B5375, 25-80 MMF. List, 40c. NET...24c

"MEX" EQUALIZER



Extremely small low-loss condenser. Screw adjustment. Isolantite base, with mica dielectric and phosphor-bronze plates. 3 to 30 mmf. 3/8" x 3/4". Shpg. wt., 2 oz.

B5376, List, 30c. NET...18c

TYPE "CTS"



Small round type ceramic padding condenser. Finest imported mica insulation; phosphor-bronze spring plates. 1 1/8" diam.

No.	Type	Mmf.	List	NET
B5065	CTS-85	25-100	50c	30c
B5066	CTS-160	45-260	60c	36c
B5067	CTS-230	65-350	60c	36c
B5068	CTS-380	175-550	75c	45c
B5069	CTS-525	230-800	80c	48c

TYPE "DTS"



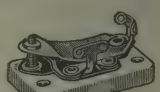
Compact, oblong type trimmers with Isolantite base; best imported mica and phosphor-bronze plates. For all padding needs. Accurate and dependable. Wt., 4 oz.

No.	Type	Mmf.	List	NET
B5070	DTS-50	8-90	30c	18c
B5071	DTS-115	30-175	40c	24c

DUAL TRIMMERS

No.	Type	Mmf.	List	NET
B5072	DTD-50	8-90	70c	42c
B5073	DTD-115	30-175	80c	48c

TYPE "MICS"



For I.F. tuning, R.F. trimming, and for padding or trimming of oscillator and other circuits. Isolantite base, 1 x 1 1/2". 1 1/4" mtg. centers. 4 oz.

No.	Type	Mmf.	List	NET
B5429	MICS-70	10-70	.60	30c
B5430	MICS-140	70-140	.60	36c
B5431	MICS-220	140-220	.70	42c
B5432	MICS-1000	600-1000	1.00	60c

ISOLANTITE INSULATORS

A new line of standoff type insulators of typical Hammarlund quality. Made of pure glazed Isolantite, these heavy-duty insulators will not chip or crack. Accurately cut threads prevent annoying thread stripping when end screws are tightened. All SOS types are 1/4" diameter; all SOL types are 3/8" diameter. Threaded top and bottom for machine screws of standard thread less hardware. Highest quality. Av. wt., 3 oz.

No.	Type	Length	NET
B5050	SOS-75	3/4"	9c
B5051	SOS-100	1"	12c
B5052	SOS-180	1 1/2"	15c
B5053	SOS-250	2"	18c
B5054	SOL-100	1"	18c
B5055	SOL-150	1 1/2"	24c
B5056	SOL-200	2"	24c
B5057	SOL-350	3 1/2"	42c

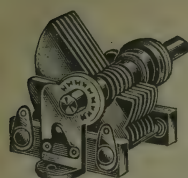
INSULATOR HARDWARE

Heavy brass, cadmium-plated hardware for use with insulators listed above. SOS and SOL consist of screw top with solder lug, lock washer, cork washer, screws and mounting base. SOS and SOL consist of same hardware but have jack top to accommodate banana plug. Mounting centers of base for SOS and SOSJ—1 1/2" of SOL and SOLJ base 1 1/4". Shpg. wt., 2 oz.

No.	Type	NET
B5058	SOSP for SOS units.	6c
B5060	SOLP for SOL units.	9c
B5059	SOSJ for SOS units.	9c
B5061	SOLJ for SOL units.	12c

Hammarlund Precision PRODUCTS

FAMOUS HAMMARLUND CONDENSERS FOR ALL PURPOSES



MIDGET TYPE

High quality midget condensers. Insulated with Isolantite. Cadmium-plated brass plates, .0225" thick with an .0245" air gap, are securely soldered to the 1/4" shaft. Wide bearings provide superior contact. Clockwise rotation. Shaft extends beyond rear of condenser.

Cat. No.	Type	Plates	Max. Mmf.	NET
B5300*	MC-20-S	3	20	\$0.84
B5301*	MC-35-S	5	35	.90
B5302*	MC-50-S	7	50	.96
B5298	MC-60-M	7	50	.96
B5303*	MC-75-S	11	80	1.20
B5304	MC-75-M	11	80	1.20
B5305*	MC-100-S	14	100	1.35
B5306	MC-100-M	14	100	1.35
B5307	MC-140-M	19	140	1.50
B5299*	MC-140-S	19	140	1.50
B5308	MC-200-M	27	200	1.65
B5309	MC-250-M	34	260	1.80
B5310	MC-325-M	43	320	2.10

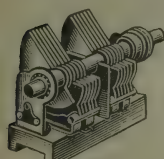
*Semi-circular plates. All others are Midline.

DOUBLE-SPACED MIDGETS

Have special bearings and Isolantite insulation. Exceptionally efficient. Air-gap .0715".

Cat. No.	Type	Max. Mmf.	Min. Mmf.	NET
B5433	MC-20-M-X	20	6.5	\$1.20
B5316*	MC-20-S-X	20	6.8	1.20
B5317*	MC-35-S-X	32	8.5	1.35
B5318	MC-35-M-X	32	7.8	1.35
B5319*	MC-50-S-X	50	11.5	1.65
B5320	MC-60-M-X	50	10.5	1.65
B5315*	MC-100-S-X	100	16.5	2.10

*Semi-circular plates. All others are Midline.



DUAL MIDGET CONDENSERS

High quality two-gang midget condensers, designed especially to provide added efficiency at ultra-high frequencies. Plates are .0225" cadmium-plated brass; .0245" air-gap. Length behind panel, 3/8".

B5434.	MCD-50-S.	50 Mmf. per section.	Semi-circular Plates. Min. cap. 5.5 mmf.
B5435.	MCD-50-M.	50 Mmf. per section.	Midline Plates. Min. cap. 5 mmf. NET EACH..... \$1.80
B5311.	MCD-100-M.	100 Mmf. per section.	Midline Plates. Min. cap. 6.3 mmf.
B5346.	MCD-100-S.	100 Mmf. per section.	Semi-circular Plates. Min. cap. 7 mmf. NET EACH..... \$2.10
B5312.	MCD-140-M.	140 Mmf. per section.	Midline Plates. Min. cap. 7.8 mmf.
B5347.	MCD-140-S.	140 Mmf. per section.	Semi-circular Plates. Min. cap. 8.5 mmf. NET EACH..... \$2.40

DOUBLE-SPACED DUAL MIDGETS

Similar to above, but have air-gap of .0715" between rotor and stator plates. Ideal for U.H.F.

Cat. No.	Type	Max. Mmf.	Min. Mmf.	NET
B5321	MCD-35-MX	31	6	\$2.10
B5322*	MCD-35-SX	31	6.8	2.10

*Semi-circular plates. Other is Midline.

BANDSPREAD MIDGETS

For use as bandspread tuning condensers in short wave receivers and for amateur frequency meters. "Tank" section may be locked for tuning with bandspread section.

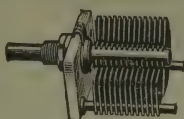
Cat. No.	Type	Tank Cap.	Tuning Cap.	NET PRICE
B5313	MC-120-B	100	20	\$1.80
B5314	MC-150-B	100	50	1.95

CONDENSER COUPLING

Bakelized canvas insulation; brass bushings. Flexible; for ganging condensers, etc., without need of exact shaft alignment. For 1/4" shafts. 1 1/2" diameter. Shpg. wt., 3 oz.

B5323. NET..... 36c

NEW TYPE "HFA" MIDGETS



Finest low-loss midget condensers. Require only 1 1/4" x 1 1/2" panel space. Ideal for receivers and low power transmitters. Heavy brass cadmium-plated plates. 100% soldered to eliminate high resistance contacts. Isolantite end plate permits insulating rotor from panel. Plates .020" thick. Shaft dimensions—standard 1/4" dia., 3/8" extension. For panel mounting only. Shpg. wt., 6 oz.

SINGLE SECTION UNITS

Cat. No.	Type	Mmf.	Air gap	NET
B5975	HFA-75-A	75	.020"	\$1.08
B5976	HFA-100-A	100	.020"	1.17
B5977	HFA-140-A	140	.020"	1.38
B5978	HFA-10-B	10	.030"	.81
B5979	HFA-15-B	15	.030"	.87
B5980	HFA-25-B	25	.030"	.94
B5981	HFA-35-B	35	.030"	.93
B5982	HFA-50-B	50	.030"	1.02
B5983	HFA-100-B*	100	.030"	1.68
B5984	HFA-150-B*	150	.030"	1.92
B5985	HFA-15-E	15	.070"	.99
B5986	HFA-30-E	30	.070"	1.35

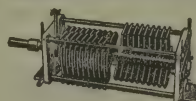
*Has both front and rear Isolantite plates.

DUAL SECTION UNITS

Split stator condensers having opposed stators and rotors for perfect balance. Have all features of HFA. Isolantite end plates on both front and rear. For panel mounting. Wt., 8 oz.

B5987	HFAD-75-A	75	.020"	\$1.89
B5988	HFAD-100-A	100	.020"	2.04
B5989	HFAD-140-A	140	.020"	2.34
B5990	HFAD-25-B	25	.030"	1.68
B5991	HFAD-35-B	35	.030"	1.77
B5992	HFAD-50-B	50	.030"	1.92
B5993	HFAD-100-B	100	.030"	2.40
B5994	HFAD-150-B	150	.030"	2.85
B5995	HFAD-15-E	15	.070"	1.80
B5996	HFAD-30-E	30	.070"	2.10

INSULATED ROTOR TYPE "HFB"



Compact high voltage condensers. Panel or chassis mounting. Rotor insulated from mounting brackets by .025" Isolantite end plates, 1 1/4" sq. Insulated control shaft for safety. Shaft dimension—1/4" dia., 1 1/2" extension. Average shpg. wt., 2 lbs.

Cat. No.	Type	Mmf.	Air-gap	NET
B6560	HFB-50-C	50	.050"	\$1.92
B6561	HFB-100-C	100	.050"	2.22
B6562	HFB-150-C	150	.050"	2.46
B6563	HFB-50-E*	100	.070"	2.64
B6564	HFB-100-E*	100	.070"	3.48
B6565	HFB-50-F†	50	.100"	2.94
B6566	HFB-100-F†	100	.100"	4.14

DUAL SECTION UNITS

B6567	HFBD-35-C	35	.050"	\$2.34
B6568	HFBD-50-C	50	.050"	2.49
B6569	HFBD-100-C	100	.050"	3.09
B6570	HFBD-200-C	200	.050"	4.05
B6571	HFBD-35-E*	35	.070"	3.30
B6572	HFBD-65-E*	65	.070"	4.20
B6573	HFBD-100-E*	100	.070"	5.40
B6574	HFBD-35-F†	35	.100"	3.72
B6575	HFBD-65-F†	65	.100"	4.95
B6576	HFBD-35-G†	35	.125"	4.35

*Max. 100% modulated voltage, 1500 V.; †2000 V.; ‡2375 V. †† Have polished rounded plate edges. Others have standard plates.

NEUTRALIZING CONDENSERS

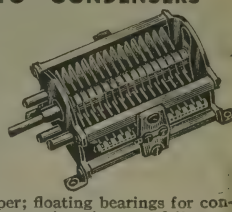
New rounded edge, thick aluminum plate type. Oversized fine thread provides micrometer tuning. Lock nut is provided for permanent setting. Isolantite insulation.

B5426.	Type N-10.	2.1 to 10 mmf. 1/4" to 1 1/4" air gap. Plate dia., 1 3/4". Size, 2 3/4" x 1 3/8". Wt., 2 lbs.	NET..... \$1.80
B5428.	Type N-15.	Size, 4 1/4" by 3 1/2". Cap. is 3.2 to 14 mmf. Wt., 4 lbs.	NET..... \$3.60
B5427.	Type N-20.	3.8 to 14 mmf. 1/8" to 2" air gap. Plate dia., 1 3/4". Size, 4 1/2" x 1 3/8". Wt., 4 lbs.	NET..... \$3.90

TYPE "MTC" CONDENSERS

SINGLES

A popular series of ruggedly built condensers for use in low or moderate power transmitters for either high or ultra-high frequency operation. Isolantite insulation. Silver-plated Beryllium rotor contact wiper; floating bearings for consistently smooth operation. Av. wt., 3 lbs.



No.	Type	Mmf.	Airgap	NET
B5631*	MTC-20-B	22	.070"	\$1.95
B5632*	MTC-35-B	33	.070"	2.10
B5633*	MTC-50-B	50	.070"	2.34
B5634*	MTC-100-B	100	.070"	3.00
B5635*	MTC-150-B	150	.070"	3.66
B5636*	MTC-50-C	46	.031"	1.68
B5637*	MTC-100-C	105	.031"	1.83
B5638*	MTC-150-C	150	.031"	1.92
B5639*	MTC-250-C	255	.031"	2.16
B5640*	MTC-350-C	360	.031"	2.40

†Polished round edged plates, .025" thick.

*Standard type plates, .025" thick.

"MTC-D" DUAL CONDENSERS

Split stator condensers with all features of MTC singles above. Contact stators in series for half the capacity at twice the breakdown voltage. Average shpg. wt., 4 lbs.

Cat. No.	Type	Cap. Per Sec.	Airgap	NET
B5641*	MTCD-20-B	22	.070"	\$3.15
B5642*	MTCD-35-B	33	.070"	3.44
B5643*	MTCD-50-B	50	.070"	3.90
B5644*	MTCD-100-B	100	.070"	5.25
B5645*	MTCD-50-C	46	.031"	2.70
B5646*	MTCD-100-C	105	.031"	3.00
B5647*	MTCD-150-C	150	.031"	3.15
B5648*	MTCD-250-C	255	.031"	3.60

†Polished round edge plates, .025" thick.

*Standard type plates, .025" thick.

"ETU" EXCITER TUNING UNITS

For use in multi-band or band-switching type exciter units. Designed for use with 6L6, RK-39, and similar type low-power beam tubes. Consist of accurately wound coil with output link winding and two variable 25 mmf. double-spaced condensers. Enclosed in shield can. 2" x 4" x 1 1/4". Wt., 1 lb.



No.	Type	Band	EACH
B5106	ETU-10	10 Meters	\$3.30
B5107	ETU-20	20 Meters	
B5108	ETU-40	40 Meters	
B5109	ETU-80	80 Meters	

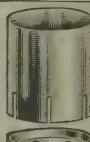
"ETU" UNWOUND UNITS

As above but have blank coil form 2" long and 7/8" diameter, with two 25 mmf. double-spaced trimmer condensers. Units tune from top. Fully enclosed in aluminum shield can. For custom tailored coils. Size, 2" x 4" x 1 1/4".

B5105. NET EACH..... \$2.70

"CS-3" COIL SHIELD

Very effective as a general purpose shield. Made of heavy aluminum and slotted to afford easy handling. Comes in 2 pieces, top and bottom. Can be used for coils and condensers, etc. Diameter is 3"; height is 3 1/2". Wt., 8 oz.



B5425. NET..... 30c

PTS POWER TUBE SHIELDS

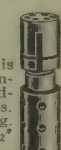
Reduce feedback. PTS is for 8K, RK-23 etc. 2 1/2" dia., 3" high. PTSH is for RK-28, 814, etc.; 2 1/4" dia., 2 1/8" high. Shpg. wt., 6 oz.

B5596. PTS Shield. \$24c

B5597. PTSH Shield. EACH..... 24c

"TS-50" ALUMINUM TUBE SHIELD

Complete isolation is afforded by this shield for the new high-gain RF pentodes. Drawn-in neck completes shielding between top and bottom sections. Special design affords maximum cooling. 4 1/2" high, 1 1/2" diameter. With 1 1/2" mounting centers. Wt., 8 oz.



B5398. NET..... 24c

TUBES - COILS - CHOKES

LATEST RCA TRANSMITTING TYPE TUBES



TYPE 829

New Push-pull R.F. Beam Power tube with 120 W. max. plate input. Fil., 6.3 V. per section at 1.125 A. Plate, 500 V. at 120 ma. Plate diss., 40 W. For Class "C" service up to 200

M.C. Wt., 2 lbs. **\$17.50**
B325. NET.

TYPE 809

Low-power triode having power output of 75 W. with grid drive of 3.8 W. Fil., 6.3 V. at 2.5 A. Plate, 1000 at 100 M.A. max. Plate dissipation, 30 W. Will deliver 100 W. audio per pair Class B. Wt., 1 lb. **\$2.50**
B362. NET.

TYPE 810

High-power triode; 620 W. plate input, 1 KW for two in PP. For Class "C" service up to 30 MC Fil., 10 V. at 4.5 A. Plate, 2250 V. at 275 M.A. max. Plate diss., 150 W. Grid driving power required, only 24 W. per pair. Output 475 W. max. Wt., 2 lb. **\$13.50**
B315. NET.

TYPE 828

R.F. beam power amplifier with 270 W. input. Plate, 1500 V. at 180 ma. Plate diss., 80 W. Fil., 10 V. at 3.25 A. For Class "C" service up to 30 MC. Wt., 2 lbs. **\$17.50**
B324. NET.

TYPE 954

Acorn-type pentode for use in U. H. F. receivers or transmitters. Fil., 6.3 V. at 0.15 A. Plate, 250 V. Especially fine at frequencies above 56 MC. Wt., 1 lb. **\$5.00**
B354. NET.

TYPE 955

"Acorn" triode. For detector in U.H.F. sets for frequencies above 56 M.C. Fil., 6.3 V. at 0.15 A. Plate 180 V. max. Wt., 1 lb. **\$3.00**
B355. NET.



TRIODES AND PENTODES

Type	Cat. No.	Plate Dissipation	Service	NET
203A	B300	100W	B-C	\$10.00
211	B302	100W	A-B-C	10.00
800	B305	35W	B-C	10.00
801	B306	20W	A-B-C	3.45
802	B307	13W	C	3.50
803	B308	125W	C	28.50
804	B309	50W	C	15.00
805	B310	125W	B-C	13.50
806	B311	225W	B-C	22.00
807	B312	30W	C	3.50
808	B313	50W	B-C	7.75
830B	B314	60W	B-C	10.00
838	B318	100W	B-C	11.00
840	B319	1W	A	6.00
841	B320	15W	A-B-C	3.25
850	B326	100W	C	37.50
852	B327	100W	C	16.40
864	B329	Preamplifier	A	1.00
865	B330	15W	C	12.75
868	B333	Phototube		3.70
917	B350	Phototube		4.75
918	B351	Phototube		4.50
921	B355	Phototube		2.00
922	B366	Phototube		2.00
923	B367	Phototube		2.60
956	B356	Acorn Pentode	C	5.00
1608	B359	20W	C	4.00

RECTIFIERS

Type	Cat. No.	Peak Inv. Volts	Max. Amps.	NET
866	B331	7500	0.25	\$1.50
866A	B332	10000	0.25	2.50
872	B334	7500	1.25	9.00
878	B336	20000	0.005	11.00
879	B337	7500	0.007	1.46

CATHODE RAY TUBES

Type	Cat. No.	Screen Size	NET
913	B349	1 Inch	\$4.00
902	B369	2 Inch	7.50
906 PI/3API	B342	3 Inch	13.50

CLASS OF SERVICE: CLASS A: Audio Amplifier. CLASS B: Class B Modulator or R.F. Amp. CLASS C: R.F. Oscillator or Amp.

TYPE 807



A universal favorite with amateurs, this exceptionally efficient beam power transmitting tube was especially designed for use in oscillator, frequency multiplier, buffer, or R.F. amplifier stages. Requires only 0.22 watts grid driving power for maximum output. Fil., 6.3 V. at 0.9 A. Plate 750 V. at 100 M.A. Plate dissipation, 30 W. Wt., 1 lb. **\$3.50**
B312. NET.



TYPE 812

200 W. output on "Phone and 340 on C.W. from a pair of these low priced tubes when driven by an 807! This remarkable performance made possible by RCA development of the Zirconium-coated anode. Type 812 tubes are low-mu triodes. Plate voltage, 1500 at 150 M.A. Plate dissipation, 55 W. Plate input, 225 W. Filament, 6.9 V. at 4 A. 4-prong base with plate brought out at top cap. 1 lb. **\$3.50**
B322. NET.

TYPE 811

High-mu version of above type 812. Zero bias type for use as frequency multiplier or R.F. amplifier. Also suitable as Class B modulator for 812's. Shpg. wt., 1 lb. **\$3.50**
B321. NET.

TYPE 814

General purpose beam power amplifier for Class "C" telegraph service. Plate dissipation, 65 W. Only 1.5 W. driving power required for output of 160 W. Thoriated filament, 10 V. at 3.25 A. Shpg. wt., 1 1/2 lbs. **\$17.50**
B323. NET.

TYPE 813

Beam power tube with 260 W. output with only 1/2 W. grid drive. For Class "C" service up to 30 MC. Fil., 10 V. at 5 A. Plate, 2000 V. at 180 MA. max. Wt., 1 1/2 lbs. **\$22.00**
B316. NET.
B4010. Socket for above. NET.....73c

COTO LO-LOSS INDUCTORS



Designed for maximum efficiency in either high or low power transmitters. Less bulky than copper tubing coils and require smaller space for mounting. Rigid construction with low dielectric losses. Wire protected from oxidation by coat of colorless baked enamel. Equipped with plug-in base with banana plugs. "T" "TL" and "TVL" series handle up to 1 KW input; "BTL" and "BTVL" coils handle up to 300 watts input. Recommended max. tuning condenser capacity is 75 mmf. for 160 meters, 35 mmf. for all other bands. Av. shpg. wt., 2 lbs.



"T" SERIES

No.	Type	Wire Size	No. Turns	Dia.	NET
B15700	160T	12	42	5"	\$2.29
B15701	80T	10	30	4"	1.94
B15702	40T	10	20	3"	1.71
B15703	20T	10	10	3"	1.35
B15704	10T	10	6	2 3/4"	1.29

"TL" SERIES (WITH FIXED LINK)

No.	Type	Wire Size	No. Turns	Dia.	NET
B15706	160TL	12	42	5"	\$3.23
B15707	80TL	10	30	4"	2.88
B15708	40TL	10	20	3"	2.65
B15709	20TL	10	10	3"	2.29
B15710	10TL	10	6	2 3/4"	2.23

"TVL" SERIES (WITH VARIABLE LINK)

No.	Type	Wire Size	No. Turns	Dia.	NET
B15712	160TVL	12	42	5"	\$3.82
B15713	80TVL	10	30	4"	3.47
B15714	40TVL	10	20	3"	3.23
B15715	20TVL	10	10	3"	2.88
B15716	10TVL	10	6	2 3/4"	2.82

"BTL" SERIES (WITH FIXED LINK)

No.	Type	Wire Size	No. Turns	Dia.	NET
B15718	160BTL	14	36	4"	\$2.70
B15719	80BTL	14	34	2 3/4"	2.62
B15720	40BTL	14	22	2 3/4"	2.35
B15721	20BTL	14	10	2 3/4"	1.98
B15722	10BTL	14	6	2 3/4"	2.09

"BTVL" SERIES (WITH VARIABLE LINK)

No.	Type	Wire Size	No. Turns	Dia.	NET
B15724	160BTVL	14	36	4"	\$3.29
B15725	80BTVL	14	34	2 3/4"	3.20
B15726	40BTVL	14	22	2 3/4"	2.94
B15727	20BTVL	14	10	2 3/4"	2.73
B15728	10BTVL	14	6	2 3/4"	2.68

STEATITE MOUNTING BASES

Bar and insulators of Steatite with end mounting holes. Jacks fit bar and plug mountings on Coto Inductors. Nickel-plated brass hardware.

No.	Type	For	Jacks	NET
B15730	CI-8TM	T	3	\$1.12
B15731	CI-8TLM	TL, TVL	5	1.18
B15732	CI-6BTLM	BTL, BTVL	5	1.18

"PEE-WEE" COILS

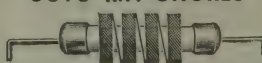
Miniature coils, wound on Alstmar 196 forms. Have five prong bases for tube socket mountings. Handle up to 100 watts; ideal for low or medium power stages. For use with 140 mmf. cond. Av. wt., 1 lb.



Freq. Band	C. T.	End Link	Center Link	Cap.
160	B15735	B15741	B15747	140
80	B15736	B15742	B15748	110
40	B15737	B15743	B15749	80
20	B15738	B15744	B15750	35
10	B15739	B15745	B15751	30

NET EACH COIL.....\$1.12

COTO R.F. CHOKES



MIDGET TYPE

C1-11. Inductance, 2.5 mh.; 125 ma., D.C. resistance, 40 ohms; tapered; nickel-plated end caps with pigtail 1 1/2 x 1/4". **\$29.**

C1-12. Similar to C1-11. 250 MA D.C. 2.2 mh., 18.5 ohms D.C. resistance, 1 1/2 x 3/4". **\$35.**

HEAVY-DUTY TYPE

C1-20. For 160, 80 and 40 meter bands. 1/2" core, 3" long. Carries 600 ma.; 3.6 mh.; D.C. resistance, 11 ohms. Size, 3 1/2 x 1 1/2". **\$75.**

C1-21. Max. impedance on 80, 40, 20, 10 meter bands. Rated at 600 ma.; 1.1 mh.; D.C. resistance, 8 ohms. Size, 3 3/4 x 1 1/4". **\$73.**

OHMITE R.F. PLATE CHOKES

All units rated at 1000 ma. Ceramic core.
B8250. TYPE Z1. For the 5 meter band. Inductance, 5.5 microhenries. D.C. resistance, .85 ohms. 1 1/4" long. Pigtail leads. **15c**
B8251. TYPE Z2. For 10 and 20 meters. 30 microhenries. Resistance, 2 ohms. Length, 3"; diam. 3/8". With mtg. brackets. **44c**
B8252. TYPE Z3. For 20 and 40 meters. 90 microhenries. Resistance, 5 ohms. Length, 6"; diam. 3/8". With mtg. brackets. **65c**
B8253. TYPE Z4. For 20, 40, 80, 160 meters. 200 microhenries. Resistance, 9 ohms. Size, 6 1/2 x 3/4". With brackets. **88c**

OHMITE PARASITIC SUPPRESSOR

TYPE P-300. A sure cure for parasitic oscillation in R.F. stages of transmitters. Increases operating efficiency and reduces possibility of tube failure. (One required for tubes in parallel; two for push pull.) Unit consists of 50 ohm vitreous enamel resistor and 0.3 mh. choke. Size: 1 1/2 x 5/8". Shpg. wt., 4 oz. **\$85.35. NET.**



TRANSMITTING CONNECTORS

For all high voltage or high R.F. current circuits, transmitter coils, etc.
B6146. JACK. 1 1/4" high. Mounts with a 10-32 screw. **12c**
B6147. PLUG. Fits above jack. 1/4" diameter with 10-32 nut; has hole in end. Fits 1/4" copper tubing. **4c**



TRANSMITTING TUBES



TYPE T55

A medium-power triode capable of high efficiency at all frequencies up to 60 M.C. Plate diss., 55 W. Max. CW output per tube, 183 W. Plate, 1500 V. at 165 ma. max. Fil., 7.5 V. at 3.0 A. Ampl. factor, 20. Requires minimum driving power for maximum output. Floating carbon anode. Wt., 2 lbs. **B1102. NET. \$6.00**

TYPE T40

"The Wonder Tube." General purpose triode. Has wide range of uses on all frequencies to 60 M.C. Performs efficiently in both R.F. and Class B audio circuits. Plate diss., 40 W. Max. CW output, 158 W. ample to drive a 1 KW amplifier. Fil., 7.5 V. at 2.5 A. Plate, 1500 V. at 150 ma. maximum. Ampl. factor, 25. Needs only 9W. grid drive. 2 lbs. **B1148. NET. \$3.50**

TYPE TZ40

A zero bias triode. General characteristics same as T40, but ampl. factor of 62. For use as frequency multiplier or Class B modulators. Class B audio output, 225 W. per pair with only 6 W. grid drive. Wt., 2 lbs. **B1149. NET. \$3.50**

TYPE 203Z

An improved zero bias version of the always-popular 203. Intended for Class B audio service. Will deliver 300 W. of audio with only 7 W. grid drive. Fil., 10 V. at 3.25 A. Plate, 1250 V. at 175 ma. Metal plate, 65 W. diss. For RF use up to 15 M.C. Wt. 3 lbs. **B1113. NET. \$8.00**

TYPE TW-75

NEW. Thin wall carbon anode. .015" thick. 75 watt plate dissipation. Fil., 7½ V. at 4.15 A. Plate, 2000 V. at 175 ma. max. Amplification factor, 20. Enclosed type anode. Visible operating temperature. Class C output, 225 W. CW; 198 W. phone. Wt., 2 lbs. **B1124. NET. \$8.00**

HYTRON TUBES



TYPE HY-30Z. Zero bias triode for Class C RF Amplifier, frequency multiplier or Class C Modulator. Plate, 850 V. max. Filament, 6.3 V. at 2.25 A. Plate dissipation, 25 watts. **B1249. NET. \$2.50**

Type HY-40. Plate dissipation, 40 W. Plate voltage, 1000 V. Fil., 7.5 V. at 2.25 A. Triode Oscillator, R.F. Amplifier or Class B Mod. Wt., 1 lb. **B1241. NET. \$3.50**

TYPE HY-40Z. Similar to HY-40, but Zero bias triode. **B1235. NET. \$3.50**

TYPE HY-61S. Ultra-high-frequency triode for operation up to 300 MC as Oscillator, RF Amplifier, or Detector. Heater, 6.3 V. at 1.5 A. Plate, 300 V. at 20 ma. max. Plate and grid leads at top. Wt., 1 lb. **B1239. NET. \$2.00**

TYPE HY-69. Shielded R.F. and audio tetrode for mobile and portable Xmitters. Instantaneous heating filament. Fil., 6.3 V. at 1.5 A. Plate, 600 V. max. at 100 ma. Plate dissipation, 40 W. Shpg. wt., 1 lb. **B1248. NET. \$3.50**

TYPE 6L6GX. Beam power tetrode for replacing 6L6 and 6L6G. Low-loss ceramic base eliminates insulation breakdown. Increases R.F. and audio output. Plate dissipation, 21 W. Shpg. wt., 1 lb. **B1238. NET. \$1.25**

TYPE HY-75. Ultra-high-frequency power triode. Operates up to 300 MC. Graphite Anode. Filament, 6.3 V. at 2.75 A. Plate, 450 V. max. at 100 ma. Plate dissipation, 15 W. Shpg. wt., 2 lbs. **B1244. NET. \$3.75**

TYPE HY-61. A 25-watt beam-tetrode. Fil., 6.3 V. at 0.9 A. Plate, 600 V. max. at 100 MA. Directly interchangeable with 807 and RK-39. Shpg. wt., 1 lb. **B1246. NET. \$3.50**

Type	No.	Plate Diss.	NET
HY-51A	B1242	65 W.	\$4.50
HY-31Z	B1234	30 W.	3.50
866 Jr.	B1247	Rectifier	1.05
866	B1236	Rectifier	1.50

Taylor

TRANSMITTING TUBES

TYPE 866 Jr.

A half-wave mercury vapor rectifier for all medium and low-voltage requirements. Fil., 2.5 V. at 2.5 A. Max. RMS A.C. volts, 1250. Max. D.C. current per pair with choke input, 250 ma. Standard 4 prong ceramic base. Filament is multi-strand type. Shpg. wt., 1 lbs.

B1108. NET. \$1.00

TYPE TW-150

NEW. Thin-wall carbon anode. .015" thick. 150 W. plate diss. Fil., 10 V. at 4.1 A. Plate, 3000 V. at 200 ma. max. G. to P. cap., 2 mmf. Grid, drive, 17 W. max. Amplification factor 35. Enclosed type anode; visible operating temperature. Class C output, 470 Watts. Shpg. wt., 2 lbs.

B1121. NET. \$15.00

B1125. TW-150S. Same husky TW-150 as above, but with UX 4-prong base and 5 V., 82 amp. filament.

NET. \$15.00

Type	No.	Plate Diss.	Class of Service	NET
203A	B1116	100 W.	B-C	\$10.00
805	B1147	125 W.	B-C	13.50
814	B1106	200 W.	B-C	18.50
822	B1119	200 W.	B-C	18.50
841SW	B1111	50 W.	C	8.00
T125	B1103	125 W.	C	13.50
T200	B1105	200 W.	C	21.50
HD203A	B1118	150 W.	B-C	14.50

Write for Complete Taylor Tube Manual, B1099, Gives Full Data. Free on Request.

H. K. GAMMATRON TUBES



Famous Heintz and Kaufman tubes used by communication companies and leading amateurs. Minimizes tube failure due to overloads because of ability to withstand large plate potentials. All have tantalum plates and grids and Nonex envelopes.

TYPE 24. General purpose triode. Plate dissipation, 25 W. Power output, 90 W. max. Plate, 1500 V. max. at 75 ma. Thoriated fil., 6.3 V. at 3 A. 4-prong ceramic base. Shpg. wt., 1¼ lbs. **B1095. NET. \$3.50**

TYPE HK-54. General purpose triode with large power handling ability. Power output, 210 W. max. Plate, 2000 V. max. at 150 ma. Thoriated fil., 5 V. at 5 A. Isolantite base, 4-prong UX. Shpg. wt., 1 lb. **B1096. NET. \$6.75**

We can supply all H. K. tubes. Literature B1094, with prices, sent on request.



GENERAL ELECTRIC TRANSMITTING TUBES

G. E. tubes bring you the latest in design and construction. Afford best performance and long life.

TRIODES AND PENTODES

TYPE	Cat. No.	Plate Diss.	Service	NET
GL-211	B1065	80 W.	A-B-C	\$10.00
GL-800	B1066	120 W.	B-C	10.00
GL-801	B1067	120 W.	A-B-C	3.45
GL-802	B1068	110 W.	C	3.50
GL-805	B1069	85 W.	B-C	13.50
GL-807	B1070	125 W.	C	3.50
GL-809	B1071	100 W.	B-C	2.50
GL-810	B1072	100 W.	C	13.50
GL-811	B1073	115 W.	B-C	3.50
GL-812	B1074	115 W.	C	3.50
GL-813	B1075	120 W.	C	22.00
GL-814	B1076	100 W.	C	17.50

RECTIFIERS

TYPE	Cat. No.	Peak Inverse Volts	Max. Amps.	NET
GL-866	B1077	7500	0.25	\$ 1.50
GL-866A	B1078	10000	0.25	2.50
GL-872	B1079	7500	1.25	9.00
GL-872A	B1080	10000	1.25	11.00

TYPE T21

A Beam-Power tetrode by Taylor for all classes of RF service. Husky construction throughout. For use as pentode or Tri-Tet oscillator, buffer, frequency multiplier, and power amp. Isolantite base; 6 prong. 21 W. plate dissipation. 6.3 V. fil. at .9 A. Plate, 400 V. at 95 ma. max. **B1120. NET. \$1.95**

TYPE T20

General purpose triode especially suited for all low-power transmitter circuits. Requires a minimum of excitation. Will furnish efficient performance as R.F. amplifier on all frequencies up to 60 MC. Conservatively rated at 20 watts. Requires 45 watts to cause cherry red spot in center of plate. Filament, 7.5 volts at 1.75 A.; Plate, 750 volts max. for Class C service; Max. D.C. plate current, 85 ma. CW output, 44 W. UX4-prong base. Wt., 2 lbs. **B1100. NET. \$2.25**

TYPE TZ20

A high-mu triode for Zero Bias Class B Audio operation, and for efficient frequency multiplying. Same general characteristics as T20 but has amplification factor of 62. Class B audio output, 80 W. per pair. Wt., 2 lbs. **B1101. NET. \$2.25**

TYPE 866

The world's most famous 866 half-wave mercury vapor rectifier, now in greatly improved form. Features a new heavy-duty, fully shielded filament and ceramic protection for top plate lead. Fil., 2.5 V. at 5 A. Peak inverse voltage, 10,000 volts. For use in any power supply circuit designed for 866 or 866A rectifier tubes. **B1109. NET. \$1.50**

EIMAC TUBES



Designed for heavy-duty service and long life. Plates and grids of gas-free tantalum; cannot go "soft" from momentary overloads. Envelopes are Nonex glass. Write for B1091 literature and prices on other Eimac tubes.

TYPE 35T. A general-purpose triode. Fil., 5 V. at 4 A. Plate, 500 to 2000 V. Max. plate dissipation, 70 W. Max. Class C power output, 225 W. per tube. **B1130. NET. \$6.00**

B1135. TYPE 35TG. For UHF use. **NET. \$6.75**

TYPE 75T. Low-C, low voltage tube with all typical Eimac features, plus heat-shielded plate lead. Fil., 5 V. at 6.5 A. Plate, 3000 V. at 175 ma. max. Class C power output, 200 W. **B1128. NET. \$9.00**

TYPE 100TL. A medium-power high-mu triode for use at any frequency up to 40 MC. Fil., 5 V. at 6.5 A. Plate, 1000 V. to 3000 V. Max. power Class C, 300 W. **B1131. NET. \$13.50**

TYPE 100TH. General-purpose triode. Same as 100TL, but requires less driving power and lower bias. For diathemy or h.f. **B1132. NET. \$13.50**

TYPE 250TL. Plate dissipation 250 watts. Class C output up to 750 W. **B1133. NET. \$24.50**

TYPE 250TH. Same as 250TL, but requires less driving power and lower bias. **B1134. NET. \$24.50**

TYPE KY21. A mercury vapor rectifier with a control grid for keying. **B1129. NET. \$10.00**

HEAT RADIATING CONNECTORS

For transmitting tube plate and grid terminals. Size given is diam. of leads or caps these connectors fit. *Fits grid of 100T and 250T. Shpg. wt., 2 oz.



No.	For Plate of:	Size	NET
B1143	HK-24	.049"	18c
B1144*	35T, HK-54, etc.	.069"	18c
B1145	100T, 807, etc.	.360"	38c
B1146	866, T125, etc.	.560"	38c

TRANSMITTING TUBES



TYPE RK49

A beam-power tetrode similar to the 6L6, but having a six-prong isolantite base. An ideal crystal oscillator, frequency multiplier, or neutralized RF amplifier. It may be either plate or screen modulated. Fil., 6.3 V. at 9 A. Plate, 400 V. at 95 MA max. Power output, 25 W. max. Carbon-nickel plate rated at 0.2 Watt grid driving power in R.F. amplifier service. Shpg. wt., 1½ lbs. **\$125**
B676. NET.....

TYPE RK43

A dual-triode for use as oscillator or amplifier in portable equipment with dry-cell filament supply. Fil., 1.5 V. at 0.12 A. Plate, 135 V. at 14 MA. Shpg. wt., 1 lb. **\$1.50**
B671. NET.....

TYPE RK34

A twin-triode for use as audio amplifier, Class C oscillator, frequency multiplier, or R.F. amplifier. Fil., 6.3 V. at 0.8 A. Plate, 300 V. at 80 MA. max. Shpg. wt., 1 lb. **\$3.50**
B664. NET.....

TYPE RK47

An aligned-grid beam-power tetrode with R.F. output of 120 W. with only 1.0 W. grid driving power. Fil., 10 V. at 3.25 A. Plate, 1250 V. at 138 MA. Wt., 2 lbs. **\$17.50**
B681. NET.....

TYPE RK48

A high-power aligned-grid tetrode with 100 W. plate dissipation; 250 W. power output. Fil., 10 V. at 5 A. Plate, 2000 V. at 180 MA. Driving power required, 1.0-1.6 W. **\$27.50**
B682. NET.....

TYPE RK39

A low-power aligned-grid beam-power tetrode with max. RF power output of 36 W. Fil., 6.3 V. at 9 A. Plate, 600 V. at 93 MA. RF driving power required, .38 W. Isolantite base. Shpg. wt., 1 lb. **\$3.50**
B672. NET.....

RAYTHEON

TRANSMITTING TUBES

TYPE RK60

A full-wave rectifier for use in low voltage power packs. Fil., 5 V. at 3 A. Plate voltage, 750 V. RMS per plate. Maximum output current, 250 MA. High vacuum type, 4 prong base. Replaces 83, 83V and 523 rectifiers. Shpg. wt., 1½ lbs. **\$2.75**
B651. NET.....

TYPE RK56

A heater type tetrode. Isolantite base. Fil., 6.3 V. at .55 amps. Plate, 300 V. at 65 MA. Suitable for use as Class C oscillator or RF amplifier. Wt., 1½ lbs. **\$3.00**
B652. NET.....

TYPE RK59

Dual triode for Class B or Class C service. Fil., 6.3 V. at 1A. Plate, 500 V. at 90 MA. Plate diss., 15 W. Wt., 1½ lbs. **\$4.50**
B684. NET.....

TYPE RK63

A low-C triode for general R.F. use. Fil., 5 V. at 10 A. Plate, 3000 V. at 233 MA. max. Tantalum plate and grid. Plate dissipation, 200 W. Shpg. wt., 1½ lbs. **\$22.00**
B683. NET.....

TYPE RK62

A gas-triode for use as detector-thyratron. Fil., 1.4 V. at .05 A. Plate, 45 V. at 1.5 MA. 4 prong base. Shpg. wt., 1½ lbs. **\$3.50**
B640. NET.....

TYPE 866

Half-wave mercury vapor rectifier. Oxide fil. 2.5 V. at 5 A. Inverse peak, 10,000 V. Peak plate curr. 1 A.; D.C., .5 A. Wt., 1 lb. **\$1.50**
B686. Type 866A. NET..... 2.50



TYPE RK12

Zero-bias triode for use as Class B modulator, oscillator, or RF amplifier. Fil., 6.3 V. at 3 amps. Plate, 750 V. at 50 MA per pair. Plate diss., 25 W. RF power output, 55 W. Class B audio output, 100 W. per pair. Isolantite base. Shpg. wt., 1½ lbs. **\$2.50**
B646. NET.....

TYPE RK11

Medium-power triode similar to RK12 above, but for Class C service only. Power output of 55 W. with only 3.2 W. grid driving power. Plate, 750 V. at 105 MA. Thoriated filament. Wt., 1½ lbs. **\$2.50**
B645. NET.....



TYPE RK42

A low-drain triode for use as audio amplifier. Fil., 1.5 V. at .06 amps. Plate, 180 V. at 3.9 MA. Wt., 1½ lbs. **\$1.10**
B670. NET.....

TYPE RK38

Triode for Oscillator, RF amp., or Class "B" modulator. Thoriated fil., 5 V. at 8 A. Plate, 2000 V. max. at 160 MA. Output 330 W. per pair, 4-prong base. Wt., 1½ lbs. **\$13.50**
B668. NET.....

TYPE RK65

An ultra-high frequency, higher-power-gain tetrode for use as RF power amplifier. Fil., 5 V. at 14 amps. Plate, 3000 V. at 250 MA max. Plate dissipation, 215 W. maximum. Shpg. wt., 2 lbs. **\$34.50**
B642. NET.....

PENTODES

For high RF output with minimum grid drive.

Type	No.	Plate Diss.	Service	NET
RK20A	B655	40W	C	\$15.00
RK23	B656	10W	C	4.50
RK25	B658	10W	C	3.95
RK28A	B660	125W	C	28.50

FAMOUS AMPHENOL POLYSTYRENE PRODUCTS

AMPHENOL 912 AND 912-B

Made of Polystyrene, the greatest advance in high frequency insulating material of recent years. Water clear and transparent. Unexcelled for all high frequency, RF or high voltage applications and has electrical characteristics equal to fused quartz. Loss factor is only .0004 at 1 MC and .0005 at 10 MC. Zero moisture absorption, for use in any climate. Amphénol 912 is pure polystyrene, molded to shape; 912-B is polystyrene with an added plasticizer; easy to drill and cut with ordinary tools.

UHF OCTAL SOCKET

World's finest socket for UHF applications. Body molded from pure polystyrene. Accommodates all octal base tubes. Steel mounting plate. Shpg. wt., 4 oz. **\$24.**
B14128. NET.....



"912" PLUG-IN COIL FORMS

For maximum coil efficiency in all high freq. apparatus. Bases fit standard tube sockets. Overall length of polystyrene body is 2¼"; dia., 1¼". Has finger grip for easy extraction. Easy to drill. Shpg. wt., 6 oz. **\$29c**
B14129. 4-prong. NET.....
B14130. 5-prong. NET..... 32c
B14131. 6-prong. NET..... 35c



UHF MINIATURE SOCKETS

For use with Miniature Coil Forms below. Sockets also accommodate Bantam Jr. tubes. Mount in ¾" hole. Held in place by steel retainer ring which is supplied. Wt., 4 oz. **\$21c**
B14133. 5-contact... NET EACH
B14134. 6-contact... NET EACH



MINIATURE PLUG-IN FORMS

Especially designed for ultra-high-frequency apparatus. Polystyrene body is 1¼" in height, ¾" in dia. Fits sockets above. Shpg. wt., 4 oz. **\$24c**
B14132. 5-prong. EACH
B14107. 6-prong. EACH



"912-B" INSULATION STRIPS—RODS—TUBING

Highly recommended for the Amateur who does a great deal of experimental or home building. Easily cut to size or drilled without special tools, and can be cemented with liquid 912-B. Immersion in hot water will permit forming in any desired shape.

"912-B" STRIPS

Can be used for coil supports, condenser insulating bars, open wire feed line spreaders, RF or high voltage terminal blocks, etc. All strips are 12" long; easy to cut. Avg. wt., 6 oz.

No.	Size	NET
B14110	¼"x ¼"	\$0.16
B14111	¼"x ½"	.21
B14112	¼"x ¾"	.30
B14113	¼"x 1"	.35
B14114	½"x ¼"	.42
B14115	½"x ½"	.64
B14116	½"x ¾"	.80
B14117	½"x 1"	1.03

"912-B" RODS

12" lengths of solid rod. Can be cut into short lengths for making small stand-offs, HF bushings, RF choke cores, spreaders, etc. Easily cut with hacksaw. Avg. wt., 6 oz. **\$26c**
B14118. ½" diam. NET.....
B14119. ¾" diam. NET..... 47c

"912-B" TUBING

For high-Q coils. Holes easily drilled exactly where they are required. ¼" wall thickness.

No.	Dia.	3" Length	6" Length
B14120	1½"	36c	71c
B14121	1¾"	42c	84c
B14122	2"	47c	94c

"912-B" RIBBON

A strong insulating ribbon, .001" thick and ¾" wide. Ideal for wrapping cable joints, splices, and covering exposed voltage points in all types of equipment for maximum safety. Welds permanently with cement listed below. Ribbon wt., 4 oz.; cement 10 oz. **\$29c**
B14123. PER 100 FT. ROLL.....
B14124. Ribbon Cement. 2 oz..... 29c

LIQUID CEMENT

"912" is a pure polystyrene coil dope for any type of coil winding. "912-B" is a cement which actually welds "912-B" Strips, Rod and Tubing. Shpg. wt., 10 oz. **\$29.**
B14125. "912-B," 2 oz. bottle. NET..... 29c
B14127. Thinner for "912," 2 oz..... 15c
B14108. Thinner for "912-B," 2 oz..... 15c



STAND-OFF INSULATORS

Leakage losses between metal base and top cap negligible. Body of transparent Amphénol "912-A." Will not break when dropped. ¾" dia. sizes have solder lug; ¾" dia. sizes have large hex. binding screw so that wires can be anchored securely. Shipping weight, 6 oz.

No.	Hgt.	Dia.	NET
B14136	1¾"	½"	29c
B14137	2"	½"	35c
B14138	2½"	¾"	65c
B14139	4"	¾"	77c
B14140	6"	¾"	88c



"912" INSULATING BEADS

These beads strung on a No. 12 solid wire, then pulled through copper tubing having a ¾" I.D., make a 75 ohm line having very low losses. Handles 1 kw. Shpg. wt., 8 oz. **\$1.47**
B14135. Box of 250. NET.....



CRYSTAL HOLDER SOCKET

For crystal holders with ¾" pin spacing. Polystyrene body with silver-plated phosphor bronze contacts reduces leakage and resistance losses. Contacts fit all standard holders. Wt., 2 oz. **\$18c**
B14148. NET.....



FREE, AMPHENOL CATALOG. Write for complete 40-page book. B14109, listing other cables, connectors and sockets.

THORDARSON High Quality

TRANSFORMERS

THORDARSON CHT MULTI-VOLT SERIES



Engineered, designed, and constructed for maximum efficiency under continuous load. Because of their extreme flexibility, excellent regulation, and quiet operation, these units are the choice of discriminating Amateurs and Commercial transmitter builders. Completely moisture-proofed and fully shielded. New 3P mounting used on larger types consists of two heavy cast ends. Each unit with individual mounting template. All plate and filament transformer primaries are for 115/230 volt, 50-60 cycle A.C.

MULTI-VOLT PLATE TRANSFORMERS

No.	Type	D.C. Volts	Ma.	Wt.	NET
B12664	T15P11	400-500	200	16	\$7.35
B12665	T15P12	500-650	200	20	8.82
B12666	T15P13	600-750	300	32	11.76
B12667	T15P14	750-1000	300	41	14.70
B12668	T15P15	1000-1250	300	52	17.64
B12669	T15P16	1000-1250	500	81	26.46
B12670	T15P17	1250-1500	300	55	19.11
B12671	T15P18	1500-1750	300	96	25.20
B12672	T15P19	2000-2500	300	85	25.40
B12673	T15P20	2000-2500	650	140	49.98

C. H. T. INPUT CHOKES

No.	Type	Hys.	Ma.	Insul.	Ohms	Wt.	NET
B12702	T15C36	5-25	200-20	4000	105	11	\$4.70
B12703	T15C37	5-25	300-30	4000	75	23	5.88
B12704	T15C38	5-25	400-30	4000	95	25	8.23
B12705	T15C39	5-25	500-30	10000	86	39	12.94
B12706	T15C41	5-25	650-50	10000	46	51	15.58

C. H. T. SMOOTHING CHOKES

No.	Type	Hys.	Ma.	Insul.	Ohms	Wt.	NET
B12693	T15C45	12	200	4000	105	11	\$4.70
B12694	T15C46	12	300	4000	75	23	5.88
B12695	T15C47	12	400	4000	95	25	8.23
B12696	T15C48	12	500	10000	86	39	12.94
B12697	T15C50	12	650	10000	46	51	15.58

HEAVY-DUTY FILAMENT TRANSFORMERS

No.	Type	Volts	Amps.	Insul.	Wt.	NET
B12686	T11F51	10/7.5/6.3 C.T.	8	2000	8	\$5.59
B12691	T11F53	2.5 C.T.	10	7500	9	4.70
B12688	T11F54	5 C.T.	20	10000	16	9.41
B12689	T11F55	5.25 C.T.	22	2000	14	6.76
B12690	T11F56	6.3 C.T.	3			
		2.5 C.T.	3.5			
		5 C.T.	3	2000	6	4.56

MULTI-MATCH MODULATION TRANSFORMERS

Plug-in terminal board for matching any driver-mod. tube combination.

No.	Type	Cap. Watts	Pri. Ma. Per Side	Sec. Ma. Ser. Par.	Wt.	NET
B12908	T11M74	40	100	80 160	8	\$5.29
B12909	T11M75	75	145	145 290	9	7.35
B12910	T11M76	125	210	160 320	18	11.47
B12911	T11M77	300	250	250 500	30	17.64
B12912	T11M78	500	320	320 640	51	35.28

MULTI-MATCH DRIVER TRANSFORMERS

Have plug-in terminal boards for matching various driver tube combinations. Recessed sub-base lugs permit single hole wiring.

No.	Type	Cap. Watts	Pri. Ma. Per Side	Ratio Pri. to 1/2 Sec.	Wt.	NET
B12902	T15D78*	15	60	3:1, 3.2:1, 3.4:1, 3.6:1, 3.8:1	6	\$4.85
B12913	T15D79*	15	60	4:1, 4.5:1, 5:1, 5.5:1, 6:1	6	4.85
B12905	T15D82†	15		1:3.15, 1:2.75, 1:2.5, 1:2.25, 1:2, 1:1.75, 1:1.4, 1:1.25, 1:1.85, 1:1.75	5 1/4	4.85

*P.P. 45 or 2A3's. †500 ohm primary.

C.H.T. CATHODE MODULATION TRANSFORMERS

"Plug-in-jack" terminal board provides quick matching for peak performance. Supplied with instructions for matching Class "C" stages.

No.	Type	Watts	Sec. Ma.	Pri. Impedance	Wt.	NET
B12906	T11M69	15	300	5000, 7000, 10000	3	\$3.23
B12907	T11M70	40	400	3000, 6600, 10000	7	4.41
B12904	T11M71	100	600	6000, 8000, 10000	10	7.64
B12675	T11M79	40	300	Variable	10	7.64
B12676	T11M80	100	400	Variable	15	10.00
B12677	T11M81	200	600	Variable	28	16.17

C.H.T. AUDIO "SPATTER" CHOKES

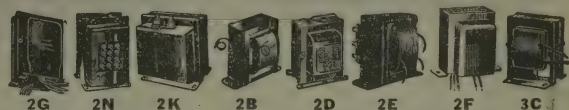
Tapped chokes for use between Class B modulator and Class C stage. Eliminate side band splatter due to excessive audio distortion.

No.	Type	Henries	Ma.	Insul.	Wt.	NET
B12580	T15C30	.025 to .8	150	3000	2	\$1.91
B12581	T15C31	.025 to .8	300	5000	4	2.65
B12582	T15C32	.025 to .8	500	7500	5	3.09

STANDARD MODULATION TRANSFORMERS

No.	Type	Primary	Secondary	Audio Wt.	NET
B12654	T67M69	1-19	2700	10 W. 2	\$1.62
B12655	T17M59	1-6A6	3000, 3750, 4500	10 W. 2	1.62
B12656	T64M26	2-46, 59	5000, 10000	40 W. 5	3.53
B12657	T19M22	2-TZ40	3750, 6600	75 W. 7	4.12
B12658	T19M22	2-809	5000, 7850	100 W. 13	5.88
B12659	T84M70	2-35T, 6L6	2500, 5000, 7500	75 W. 10	5.88
B12660	T14M49	2-TZ40	2850, 4500, 6500	175 W. 20	9.70
B12661	T82M25	2-805, 822	4000, 6000, 8000	650 W. 47	23.52

THORDARSON TRANSFORMERS & CHOKES



An extremely popular line offering all necessary transformer equipment for dependable service in Amateur Short-Wave equipment. All primaries are for 115 volt 50-60 cycles. Other voltages on special order. Describe your requirements and send deposit with order or write for complete information and quotations.

PLATE TRANSFORMERS

No.	Type	D.C. Volts	D.C. Ma.	Fig.	Wt.	NET
B12599	T19P54	400	150	2G	7	\$3.23
B12600	T19P55*	500-400	250	2G	8	3.82
B12601	T19P56	750-600	225	2G	10	4.12
B12602	T19P57	1000-400†	125-150	2G	11	5.00
B12603	T19P58	1000-750†	150-200	2G	19	8.38
B12604	T19P59	1000-1250	300	2K	27	9.41
B12605	T19P60	1250-1500	300	2K	31	11.86
B12606	T19P61	1500-1750	300	2K	39	13.23
B12607	T19P62	1750-2000	300	2K	35	13.52
B12608	T19P63	1000-1250	500	2K	38	16.76
B12609	T19P64	1250-1500	500	2K	44	17.35
B12610	T19P65	2000-2500	300	2K	44	20.68
B12611	T19P66	1500-1750	500	2K	46	24.99
B12612	T19P67	1750-2000	500	2K	51	29.40
B12613	T19P68	2000-2500	500	2K	61	

*Bias tap at 30 volts. †Designed for double rectifiers; supply both secondary voltages simultaneously.

FILAMENT TRANSFORMERS

No.	Type	Volts	Amps.	Insul.	Fig.	Wt.	NET
B12614	T50F61	2.5 CT	3.5	1600	2B	1	\$0.88
B12615	T19F88	2.5 CT	5.25	1600	2B	1 1/4	1.03
B12616	T19F89	2.5 CT	10	1600	2B	2	1.32
B12617	T19F90	2.5 CT	10	7500	3C	2 1/4	1.76
B12585	T19F82	2.5 CT	15	10000	3C	4	2.94
B12618	T64F33*	2.5 CT	10	7500	2N	4 1/2	2.65
B12619	T63F39	5 CT	4	1600	2D	2 1/2	1.91
B12586	T19F83	5 CT	5	1600	2B	2	1.32
B12587	T19F84	5 CT	8	1600	2B	3 3/4	1.91
B12588	T19F85	5 CT	13	1600	3C	4	3.23
B12589	T19F86	5 CT	21	1600	3C	4 1/2	3.23
B12620	T19F91	5.25 CT	4	1600	3C	2 1/4	1.32
B12621	T19F92	5.25 CT	13	1600	3C	4	1.91
B12622	T74F23*	5 CT	13	1600	2D	4 1/4	2.94
B12623	T74F24*	5 CT	21	1600	2D	5 1/4	4.41
B12590	T19F80	6.3 CT	1	1600	2B	3 3/4	.73
B12591	T19F81	6.3 CT	2	1600	2B	3 3/4	.88
B12624	T19F97	6.3 CT	3	1600	2B	1 1/2	1.18
B12625	T61F85	6.3, 5.2, 2.5	2.5	1600	2E	1 1/2	1.18
B12626	T73F60*	6.3 CT	5	1600	2D	3 1/4	2.20
B12627	T19F98	6.3 CT	6	1600	3C	2 1/4	1.62
B12628	T19F99	6.3 CT	10	1600	3C	4	2.06
B12629	T19F93	7.5 CT	4	1600	3C	2 1/4	1.32
B12630	T19F94	7.5 CT	8	1600	3C	4	1.76
B12631	T92F20	7.5 CT	8	1600	2D	4 3/4	2.92
B12632	T19F95	10 CT	4	1600	3C	2 1/4	1.62
B12633	T19F96	10 CT	8	1600	3C	4	2.06
B12634	T64F14*	10 CT	8	1600	2D	5	2.79
B12592	T19F87	10 CT	12	1600	3C	6 1/4	3.67

*Primaries tapped at 105, 110 and 115 volts.

MULTIPLE SECONDARY FILAMENT TRANSFORMERS

No.	Type	Volts—Amps.	Fig.	Wt.	NET
B12593	T19F76	5@3; 7.5@6.3/5@6	2G	5	\$2.79
B12595	T19F78	2.5CT@10; 5@3	2G	5	3.09
B12635	T79F84	2.5CT@3.5; 5CT@3; 6.3CT@3	2G	5	3.79

SWINGING CHOKES

No.	Type	Henries	Ma.	Res.	Insul.	Fig.	Wt.	NET
B12645	T19C39	5-20	150	215	3000	2F	4 3/4	\$1.91
B12636	T19C35	5-20	200	130	3000	2D	5	2.35
B12637	T19C36	5-20	300	105	5000	2D	11	3.82
B12638	T19C37	5-20	400	90	5000	2K	20	5.88
B12639	T19C38	5-20	500	75	5000	2K	26	8.23

SMOOTHING CHOKES

No.	Type	Henries	Ma.	Res.	Insul.	Fig.	Wt.	NET
B12644	T19C46	12	150	215	3000	2F	4	\$1.91
B12640	T19C42	12	200	130	3000	2D	6	2.35
B12641	T19C43	12	300	105	5000	2D	11	3.82
B12642	T19C44	12	400	90	5000	2K	20	5.88
B12643	T19C45	12	500	75	5000	2K	26	8.23

FILAMENT CORRECTOR TRANSFORMERS

Designed to operate with conventional filament transformers. Will prolong tube life by supplying correct filament voltages to tube sockets. Compensate for variations in line voltage or for drop in filament leads.

No.	Type	Sec. Watts	Primary Taps	Fig.	Wt.	NET
B12583	T18V24	60	105/110/115/120/125	2E	1	\$1.18
B12584	T18V25	150	105/110/115/120/125	2E	2	1.62

THORDARSON TRANSMITTER MANUAL

Completely revised. Contains transmitter schematic diagrams, parts lists, modulation tables, coil data, power supply circuits, etc. An indispensable aid to everyone interested in Amateur radio.

B11206. NET..... 9c

NOTE: We can supply all Thordarson Transmitting Transformers and Chokes in addition to the selection listed on this page. Send for the complete Thordarson catalog B11002. This useful, informative guide is supplied free on request.

Transmitting CAPACITORS

CORNELL-DUBILIER

"TJU" FILTER CONDENSERS



Highest quality condensers for transmitting apparatus. Always a favorite with builders of transmitting equipment, these new "TJU" units represent increased value at no extra cost. Hermetically sealed in non-corrosive steel containers. Selected dielectric impregnated in Dykanol. Voltage ratings are conservative. Universal bracket supplied for up-right or inverted mounting. Average wt., 2 lbs.

Cat. No.	Mfd.	Wkg. Volts	NET
B13555	1	600	\$2.06
B13556	2	600	2.49
B13557	4	600	3.23
B13558	1	1000	2.20
B13559	2	1000	2.67
B13560	4	1000	3.67
B13561	1	1500	2.64
B13562	2	1500	3.67
B13563	4	1500	4.98
B13564	1	2000	3.23
B13565	2	2000	3.82
B13566	4	2000	5.70
B13567	1	2500	2.70
B13568	2	2500	7.64
B13569	1	3000	7.06
B13570	2	3000	8.82

"TLA" SERIES



Especially designed for heavy-duty requirements in transmitter or audio amplifier power supplies. Hermetically sealed in inverted type round aluminum containers; ideal for use where space is limited. Diameter of can is only 1 1/4". Dielectric is selected paper, impregnated and filled with Dykanol. Single hole mount with stud and lock nut. Center lead insulated terminal type; metal can is negative connection; insulated washers supplied. **NOTE: WE CAN SUPPLY ALL C-D transmitting condensers not listed here, on special order. Write for complete Cornell-Dubilier catalog B13582.**

Cat. No.	Mfd.	Volts	NET
B13575	2	600	\$1.62
B13576	3	600	1.91
B13577	4	600	2.20
B13578	1	1000	1.47
B13579	2	1000	1.91
B13580	1	1500	1.91
B13581	1.5	1500	1.91

FAMOUS GENERAL ELECTRIC PYRANOL-FILLED CAPACITORS



Efficient durable transmitting condensers of the best quality. These condensers will give exceptional service and long life. Filled and treated with Pyranol, a non-inflammable, non-explosive substance of unusual dielectric qualities. Hermetically sealed. With porcelain lead-out bushings. Equipped with mounting flanges for easy upright mounting and high voltage stand-off insulators with locking nut-and-bolt type binding posts.

No.	Type	Mfd.	Volts	NET
B5400	23F1	1	600	\$2.06
B5401	23F2	2	600	2.50
B5402	23F4	4	600	3.23
B5403	23F10	1	1000	2.20
B5404	23F11	2	1000	2.94
B5405	23F13	4	1000	3.67
B5406	23F20	1	1500	2.65
B5407	23F21	2	1500	3.67
B5408	23F23	4	1500	5.00
B5409	23F30	1	2000	3.23
B5410	23F31	2	2000	3.82
B5411	23F33	4	2000	5.29
B5412	23F39	1	2500	4.70
B5413	23F40	2	2500	7.64
B5414	23F41	4	2500	10.58

G. E. Pyranol Transmitting Capacitors are available in voltage ratings up to 5000 volts D. C. Write for complete listing, B5415.

AEROVOX CONDENSERS

HYVOL "05" SERIES

Increasingly popular for all transmitter requirements. These units have pure linen paper dielectric, impregnated and filled with "Hyvol" oil. All voltage ratings are conservative for continuous operation. Hermetically sealed in round aluminum containers. Terminals equipped with lock nuts and solder lugs are adequately insulated by means of high-tension pillars. Mounts upright or inverted. An exceptionally high-grade transmitting condenser. With ring mount.



Cat. No.	Type	Mfd.	Wkg. V.	NET
B13510	605	1	600	\$1.47
B13511	605	2	600	1.91
B13512	605	4	600	2.65
B13513	1005	1	1000	1.62
B13514	1005	2	1000	2.20
B13515	1005	4	1000	2.79
B13516	1505	1	1500	2.06
B13517	1505	2	1500	2.79
B13518	1505	4	1500	3.53
B13519	2005	1	2000	2.65
B13520	2005	2	2000	3.23
B13521	2505	1	2500	5.88
B13522	2505	2	2500	5.88
B13523	3005	1	3000	5.29

MOLDED MICA CONDENSERS

Suitable for all voltage or R.F. by-pass requirements. Highest quality, selected mica dielectric in molded bakelite case with screw terminals. Wt. 1 oz.



TYPE 1650-1000 VOLTS

Cat. No.	Cap.	NET EACH	Cat. No.	Cap.	NET
B13525	.00005		B13530	.001	\$0.35
B13526	.0001		B13531	.001	.59
B13527	.00015	35c	B13532	.01	.82
B13528	.00025		B13533	.02	1.09
B13529	.0005		B13534	.05	2.26

TYPE 1651-2500 VOLTS

Cat. No.	Cap.	NET EACH	Cat. No.	Cap.	NET
B13535	.00005		B13539	.002	\$0.79
B13536	.00025	41c	B13540	.006	1.03
B13537	.0005		B13541	.01	1.65
B13538	.001	53c	B13542	.02	2.32

TYPE 1652-5000 VOLTS

Cat. No.	Cap.	NET EACH	Cat. No.	Cap.	NET
B13543	.00005	53c	B13547	.001	\$0.88
B13544	.0001		B13548	.002	1.32
B13545	.00025	.62c	B13549	.006	2.06
B13546	.0005	.73c	B13550	.01	2.41

WHILE STOCKS LAST!

POPULAR AEROVOX "11" SERIES

NEW LOW PRICES!

Exceptionally low prices for the finest oil-impregnated, wax-filled transmitting condensers. We urge our amateur customers to purchase a supply of these while they last, because never again will such condenser values be obtainable. Dielectric between windings is oil impregnated paper. Sections are separated by special wax. Unit is encased in welded steel can. Condenser mounts either upright or inverted. Adjustable bracket can be moved so that any portion of condenser is above or below the chassis. High tension stand-off insulators, equipped with lock nuts and soldering lugs. Av. shpg. wt., 3 lbs.



Cat. No.	Type	Mfd.	Wkg. V.	NET
B13450	1011	1	1000	\$1.10
B13451	1011	2	1000	1.50
B13452	1011	4	1000	2.00
B13453	1511	1	1500	1.45
B13454	1511	2	1500	2.00
B13455	1511	4	1500	3.25
B13456	2011	1	2000	1.75
B13457	2011	2	2000	2.45
B13458	2011	4	2000	4.65
B13459	3011	1	3000	2.50
B13460	3011	2	3000	4.95

SANGAMO MICA TRANSMITTING CONDENSERS



Accepted by Amateurs everywhere for all types of transmitter and receiver circuits. Ideal for use as by-pass condensers, in R.F. circuits, as coupling condensers, etc. Bakelite cases; finest ruby mica dielectric. Accurate to within 10%.

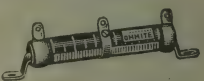
1000 V. DC TEST			2500 V. DC TEST		
No.	Mfd.	NET	No.	Mfd.	NET
B7650	.00005	\$0.24	B7672	.00005	\$0.41
B7651	.00015	.24	B7673	.0001	.41
B7652	.00015	.24	B7674	.0002	.41
B7657	.0002	.24	B7675	.00025	.41
B7653	.00025	.24	B7676	.0005	.41
B7656	.0005	.24	B7677	.001	.53
B7658	.001	.29	B7678	.002	.79
B7659	.0015	.29	B7679	.004	.91
B7660	.002	.29	B7680	.005	1.03
B7661	.003	.35	B7681	.006	1.03
B7662	.004	.35	B7682	.008	1.32
B7663	.005	.41	B7683	.01	1.65
B7674	.006	.50	5000 V. DC TEST		
B7665	.008	.59	B7975	.00005	\$0.53
B7667	.01	.68	B7976	.0001	.53
B7668	.015	.73	B7977	.00015	.59
B7666	.02	1.09	B7978	.00025	.62
B7669	.025	1.35	B7979	.0005	.73
B7655	.03	1.47	B7980	.001	.88
B7671	.05	2.26	B7981	.002	1.32
B7670 Resistor clips. Net, per pair. 6c			B7982	.003	1.62
			B7983	.005	1.94
			B7984	.01	2.41

We can also supply 2500 and 5000 Volt Sangamo condensers with "dead" terminals on one side, suitable for panel mounting at no additional cost. Specify when ordering.

OHMITE VOLTAGE DIVIDERS

Ideal for transmitter power supplies.

Have sliding contacts. 50 watt size is 4" long, 100 watt size is 6 1/2" long; 200 watt, 10 1/2" long. Hollow ceramic core prevents overheating. Supplied with one slider and mounting brackets. Av. shpg. wt., 1 lb.



50 WATTS			
No.	Ohms	Ma.	NET Each
B8359	250	447	
B8360	500	316	
B8361	750	258	
B8362	1000	224	
B8363	1500	183	
B8364	2000	158	79c
B8365	2500	142	
B8366	5000	100	
B8367	10000	70	
B8368	15000	57	
B8369	20000	48	88c
B8370	25000	43	
B8371	30000	41	
B8372	40000	35	\$1.00
B8373	50000	25	
B8374	100000	12	1.18
B8399	EXTRA SLIDER.....		6c

100 WATTS			
B8375	1000	316	\$1.18
B8376	5000	141	
B8377	10000	100	
B8378	15000	81	\$1.32
B8379	20000	70	
B8380	25000	56	
B8381	30000	51	1.47
B8382	40000	38	
B8383	50000	28	
B8384	75000	16	1.62
B8385	100000	14	
B8386	EXTRA SLIDER.....			9c

200 WATTS			
B8387	1000	447	
B8388	5000	200	
B8389	10000	141	\$1.76
B8390	15000	115	
B8391	20000	100	
B8392	25000	89	
B8393	30000	81	
B8394	40000	63	2.06
B8395	50000	49	
B8396	75000	30	
B8397	100000	20	
B8398	EXTRA SLIDER.....		9c

SPRAGUE LIFEGUARDS

Live rubber, high voltage insulators as used on high voltage terminals. Slip over binding posts of condensers, standoffs, connectors, etc. Shpg. wt., 2 oz.

B13349. NET PER PAIR..... 15c



Transmitting Equipment

FAMOUS CARDWELL TRANSMITTING CONDENSERS

"X" LINE SINGLES



Incorporate every advanced feature in condenser design. Mycalex insulated. Accurately built. Rigid and vibration-proof. With rounded edges and polished aluminum plates. Nickel-plated brass and cadmium-plated metal parts. For panel or chassis mounting. Highest quality throughout. Av. shpg. wt., 4 lbs.

Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
B13700	XT-220PS	220	.070"	\$2.70
B13701	XT-440PS	440	.070"	2.92
B13702	XP-90KS	90	.084"	2.70
B13703	XP-165KS	165	.084"	3.90
B13704	XP-290KS	290	.084"	5.70
B13705	XP-330KS	330	.084"	6.48
B13706	XE-240XS	240	.100"	6.48
B13707	XG-25XS	25	.171"	2.10
B13708	XG-50XS	50	.171"	3.90
B13709	XG-110XS	110	.171"	5.82
B13710	XC-18XS	19	.200"	3.70
B13711	XC-40XS	40	.200"	3.90
B13712	XC-65XS	65	.200"	5.10
B13713	XC-100XS	100	.200"	6.30

"X" LINE DUALS

Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
B13715	XR-500PD	500	.030"	\$3.90
B13716	XT-80PD	80	.070"	3.30
B13717	XT-210PD	210	.070"	5.22
B13718	XP-90KD	95	.084"	4.50
B13719	XP-165KD	165	.084"	6.60
B13720	XP-325KD	325	.084"	13.20
B13721	XE-240XD	240	.100"	12.60
B13722	XG-50XD	50	.171"	6.42
B13723	XG-110XD	110	.171"	10.80
B13724	XC-40XD	40	.200"	6.90
B13725	XC-75XD	75	.200"	9.00
B13726	XD-160XD	160	.125"	11.40

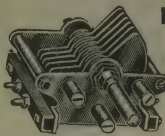
AIRGAP VOLTAGES: 1000 V. for .030" gap; 3500 V. for .070" gap; 4000 V. for .084" gap; 4250 V. for .100" gap; 4750 V. for .125" gap; 5750 V. for .171" gap; 6500 V. for .200" gap; 6750 V. for .230" gap.

TYPE ARL ROTOR LOCK



For use with any condenser having 1/4" shaft where dial of knob adjustment from front of panel is not required. Permits locking condensers rigidly in position after making circuit adjustments. Shpg. wt., 4 oz.

B13698. NET.....**36c**



MIDWAY SINGLES

Sturdily built, compact, variable condensers for receivers and low-power Xmitters. Aluminum plates and frames are carefully machined and finished. Mycalex insulation. Double bearings assure perfect alignment. Supplied with aluminum mounting feet. Shaft, 1/4x1". Panel mounting space, 3x2 1/8".

Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
B13601	MR-50BS	50	.030"	\$1.68
B13602	MR-70BS	70	.030"	1.77
B13603	MR-105BS	105	.030"	1.83
B13604	MR-150BS	150	.030"	1.89
B13605	MR-260BS	260	.030"	1.93
B13606	MR-365BS	365	.030"	2.23
B13607	MO-165BS	165	.070"	1.83
B13608*	MT-20GS	20	.050"	1.95
B13609*	MT-35GS	35	.070"	2.10
B13610*	MT-50GS	50	.070"	2.34
B13611*	MT-70GS	70	.070"	2.67
B13612*	MT-100GS	100	.070"	2.94
B13613*	MT-150GS	150	.070"	3.60
B13614*	MG-35NS	35	.171"	3.60

MIDWAY DUALS

Similar to above. For receivers and Xmitters.

Cat. No.	Type No.	Cap. Mmf. per Sec.	Air Gap	NET
B13615	MR-25BD	25	.030"	\$2.61
B13616	MR-50BD	50	.030"	2.82
B13617	MR-70BD	70	.030"	2.94
B13618	MR-105BD	150	.030"	3.18
B13619	MR-105BD	100	.030"	3.06
B13620	MR-260BD	260	.030"	3.30
B13621*	MT-20GD	20	.070"	3.33
B13622*	MT-35GD	35	.070"	3.40
B13623*	MT-50GD	50	.070"	3.81
B13624*	MT-70GD	70	.070"	4.20
B13625*	MT-100GD	100	.070"	4.80
B13626	MO-180BD	180	.050"	4.80

*Rounded Plate Edges.

AIRGAP VOLTAGES: 1000 V. for .030" gap; 1500 V. for .050" gap; 3000 V. for .070" gap.



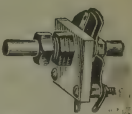
TYPE "M" BRACKET

Originally designed for use in mounting the "N" type UHF condensers, but also suited for use with all Midway types. For rigid mounting to chassis. Wt. 2 oz.

B13745. NET EACH.....**12c**

TRIM-AIR MIDGETS

For all uses where high-quality midgets are required. Rigid, Isolantite-mounted assembly assures greatest stability and minimum losses. Universal mounting facilities. For use as midget tuning condenser or low power neutralization. Can easily be ganged. Wt., 12 oz. Excellent for UHF work.



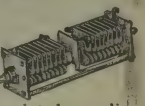
Cat. No.	Type No.	Cap. Mmf.	Air Gap	NET
B13630	ZR-10AS	10	.030"	\$0.75
B13631	ZR-15AS	15	.030"	.75
B13632	ZR-25AS	25	.030"	.84
B13633	ZR-35AS	35	.030"	.90
B13634	ZR-50AS	50	.030"	.96
B13635	ZU-75AS	75	.020"	1.02
B13636	ZU-100AS	100	.020"	1.09
B13637	ZU-140AS*	140	.020"	1.11
B13638	ZS-4SS	4	.140"	.93
B13640	ZT-15AS	15	.070"	.75
B13641	ZS-VT+	5	.061"	.87
B13642	ZT-10AS	11	.070"	1.11
B13643	ZT-30AS	30	.070"	1.26
B13644	ZS-7SS	7	.140"	

*Double-bearing; two end plates.
1/2 segment stator for 5 meter circuits.

B13742. Mounting Bracket. NET..... 6c
B13743. Mounting Posts, per pair. NET. 8c
B13744. Extra Extension Posts. NET. 4c

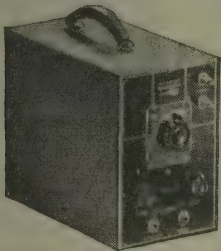
DUAL TRIM-AIRS

For use in low and medium power transmitter stages, receivers, portable equipment, etc. Small and compact, requiring minimum space for mounting. All units with insulated coupling particularly suited for use as neutralizing condensers for push-pull RF stages. Wt., 1 lb.



Cat. No.	Type No.	Mmf. per Section	Air Gap	NET
B13641	EU-75AD	75	.020"	\$1.98
B13642	EU-100AD	100	.020"	2.04
B13643	EU-140AD	140	.020"	3.60
B13644	ER-10AD	10	.030"	1.56
B13645	ER-15AD	15	.030"	1.66
B13646	ER-25AD	25	.030"	1.82
B13647	ER-35AD	35	.030"	1.74
B13648	ER-50AD	50	.030"	1.86
B13649	ET-15AD	15	.070"	1.80
B13654	ET-15ADI	Insul. Coup.	.070"	2.10
B13650	ET-30AD	30	.070"	2.16
B13651	ET-30ADI	Insul. Coup.	.070"	2.46
B13652	ES-4SD	4	.140"	2.16
B13653	ES-4SDI	Insul. Coup.	.140"	2.16
B13655	ES-7SDI	Insul. Coup.	.140"	2.70

ABBOTT 2 1/2 METER TRANSCEIVER

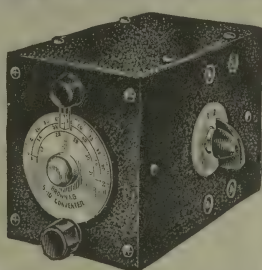


Ideal for Portable or Mobile operation or for use at the home station. Sturdy steel carrying case, size 11 1/2" x 9 1/2" x 6 1/2", with room for all necessary batteries. Range varies from two to thirty miles, depending upon elevation above ground. Simple to operate; panel tuning with one control which functions in both receive and transmit positions. Volume control is smooth acting and has no effect on tuning of signal. Can be used as portable or portable-mobile unit with 4 foot antenna; Ceramic antenna posts act as support for antenna in vertical position. Tubes used are 1-6J5GTX and 1-6G6G. Uses two 3-volt dry cells and four type No. 5308 Burgess 45-volt batteries. Battery drain is low, assuring maximum operating life and economical performance. Requires a single button carbon mike and headphones, or combination cradle type handset. Shpg. wt., 12 lbs. Less tubes, batteries, headset, antenna, and mike.

B15215. MODEL DK-2. \$16.17

B15216. Accessory Kit. Contains tubes and all batteries required as listed above. Shpg. wt., 13 lbs. NET.....\$7.29

BROWNING CONVERTER FOR 5 AND 10 METERS



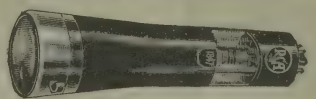
Designed primarily for Amateur mobile 5 and 10 meter work in conjunction with any reasonably sensitive auto radio. Equipped with band-switch as well as antenna changeover switch. Voltage stabilized; mechanically rigid to insure oscillator and tuning stability.

FOR USE WITH ANY RECEIVER

Can be used with any set that can be tuned to a frequency between 1500 KC and 5000 KC. Resetting oscillator and antenna condensers permits tuning over entire range from 27 to 64 MC if desired. Features: Separate 5 and 10 meter oscillator and antenna circuits; electrical bandspread; air-tuned, air-trimmed circuits, Isolantite insulation, cushioned mounting, 2 1/2" silvered dial, illuminated dial marker. Compact, only 4" x 6 1/4" x 4 1/2". Uses 1-6K8 tube. Requires only 10 ma. at 250 volts, and .45 amp. at 6 V. Power supply not included. Shpg. wt., 7 lbs.

B10678. With tube. NET...\$24.90

RCA ICONOSCOPE TUBE FOR AMATEUR TELEVISION



A television "camera" tube, producing a clear 120 line, 30 frame picture. For complete data on setting up the Amateur television "camera," transmitter, and receiver, refer to issues of QST for May, June, and July, 1940. Issues include circuits and operating data.

B387. RCA Type 1847 Icono- \$24.50

scope. NET.....
Free Reprints of the QST articles mentioned are available on request. Ask for B388.

HIGH VOLTAGE HOOKUP WIRE STRANDED PRIMARY WIRE

The finest high-voltage hookup wire we can buy! Tinned stranded conductor covered with live rubber and cotton, with an overall covering of lacquered braid. Conservatively rated at 5000 volts. Recommended for all HV circuits.

B3600. No. 18. 25 foot coil. NET..... 21c
B3601. No. 16. 25 foot coil. NET..... 26c
B3602. No. 14. 25 foot coil. NET..... 33c
B3603. No. 12. 25 foot coil. NET..... 48c

SOLID PUSHBACK WIRE

Solid tinned conductor with double push-back insulation; impregnated. Ideal for all transmitter wiring. Voltage breakdown, 2500 volts.

B3604. No. 16. 25 foot coil. NET..... 19c
B3605. No. 14. 25 foot coil. NET..... 26c
B3606. No. 12. 25 foot coil. NET..... 45c

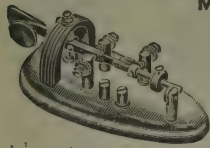
Transmitting Equipment

T. R. McELROY'S WORLD-FAMOUS RADIO-TELEGRAPH APPARATUS

MAC "STREAM" SPEED-KEY

MODEL S600PC

The finest semi-automatic key made. It's a Super-Deluxe "bug" that will add WPM to your fist, whether you are a "Ham" or a Commercial operator! It's a masterpiece of



mechanical craftsmanship by the World's Champion Telegrapher—a thing of beauty for any operating table. Massive streamlined base, all top parts finished in highly polished chrome. $\frac{1}{16}$ " platinum alloy contacts; beryllium copper main spring and U spring. Coil springs, bearings and pins of finest stainless steel for lifetime service. Here's a "bug" so finely balanced that a feather touch makes rhythmic dots and dashes without a sputter. Shpg. wt., 8 lbs.

B7957. NET.....\$11.85

MAC "STREAM" HAND KEYS

Well-balanced, sturdily constructed keys. Perfectly balanced main levers. Bronze bearing screws. Heavy cast base. All MAC products designed by T. R. McElroy, world's champion radio telegrapher.



MODEL 100

An exceptionally fine Amateur key at this price. Black plastic base. All metal parts are cadmium plated. Without circuit closer. Shpg. wt., $1\frac{1}{4}$ lbs.

B7955. NET.....\$1.00

MODEL 200

This Professional model is similar to above, but all parts are heavier. Has $\frac{1}{16}$ " contacts and plastic base. All metal parts are chrome-plated. Shpg. wt., 1 lb.

B7969. NET.....\$1.80

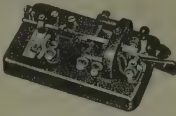
MODEL 300

Ball-bearing mounted lever with positive pigtail connection. Heavy cast metal base. Chrome finish. Wt., 2 lbs.

B7956. NET.....\$2.85

PROFESSIONAL MAC-KEY

Designed to United States Navy specifications. A fine professional speed-key with heavy Parkerized base covered with black wrinkle enamel. Pure silver $\frac{1}{16}$ " contacts. Arm and adjustment screws chrome plated. Circuit closing switch. Shpg. wt., 8 lbs.



B7810. NET.....\$7.50

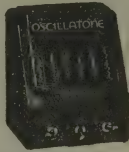
AMATEUR SPEED-KEY

Designed for the operator who requires a speed-key at moderate cost. Precision-built; non-tiring. Heavy cast base finished in black wrinkle; all other parts nickel-plated. Silver contacts. Shpg. wt., 8 lbs.

B7811. NET.....\$5.95

MAC OSCILLATOR

An entirely new type of oscillator for code-instruction or practice, or as a keying monitor with a transmitter. The Oscillator is housed in a beautiful plastic cabinet, with built-in reductor, and operates from any 110 volt AC or DC supply. Provides 600 or 1000-cycle signal with tone and volume adjustment. Built-in key-click eliminator and terminals for transmitter relay. Uses 1—117N7GT tube.



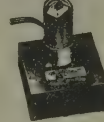
Shpg. wt., 7 lbs.

B7812. Less tube. NET.....\$5.95

B249. RCA 117N7GT tube. NET...\$1.13

AC-DC MAC OSCILLATOR

A code practice oscillator of the finest type at a price that is exceptionally low. Uses a single 117N7GT tube and operates from any 110 volt AC or DC supply. Furnishes clean signal exactly like signals from a receiver; ideal for beginners and students. Less tube.



Wt. 2 lbs.

B7813. NET.....\$2.85

B7818. "Oscillofone." Small molded-plastic cabinet and speaker for use with Mac oscillator.

Shpg. wt., 3 lbs. **NET.....\$2.85**

NEW MAC-AUTOMATIC CODE EQUIPMENT

High-speed automatic transmitting and recording equipment, designed by T. R. McElroy. Ideal for use by commercial or professional operators for recording high-speed code transmissions, or for high-speed transmitter keying. The perfect way to obtain smooth and even keying of code practice equipment for group or class instruction. Designed for long, trouble-free operation at any speed.

RECORDER

A commercial quality telegraph signal recorder capable of speeds in excess of 100 WPM. Simple and foolproof in operation; uses inexpensive ink available everywhere. Precision-designed and built; as accurate and reliable as imported units selling at many times the price. Shpg. wt., 15 lbs.



B7814. NET.....\$29.50

B7815. Static suppressor and signal leveler for use with recorder. Shpg. wt., 15 lbs. NET.....\$29.50

MAC-AUTO

A photo-cell scanning device for use with ordinary commercial inked slip. Built-in polarized relay to key any ordinary telegraph or radio transmitter at speeds up to 100 WPM. Adjustable photo-cell sensitivity. For 110 volt AC-DC. Supplied complete with tubes. Shpg. wt., 15 lbs.



B7816. NET.....\$29.50

TAPE PULLER

For use with either the Mac Auto or Mac Recorder. Powerful 110 volt AC-DC motor with rheostat speed control. Built-in take-up reel. Speed adjustable for desired spacing with recorder or for speed of Mac Auto when keying any signal device. Holds constant, unwavering speed at any setting of rheostat. Shpg. wt., 15 lbs.



B7817. NET.....\$29.50

SPEED-X TRANSMITTING KEYS

501 HI-SPEED AUTOMATIC

Heavy, polished, chromium-plated steel base. Perfectly aligned free-acting bearings. Will hold adjustment at all speeds. $\frac{1}{16}$ " coin silver contact. Has adjustable double finger-paddles. Equipped with cord and shorting switch for use in land wire service. A deluxe key in every detail. Shpg. wt., 6 lbs.

B7964. NET.....\$10.29

NO. 515 AMATEUR KEY

A durable, heavy-duty Speed Key. Base and casting finished in black wrinkle enamel; all other parts chrome plated. Other features same as Hi-Speed key above, but has $\frac{1}{16}$ " silver contacts. Less cord and plug; does not have shorting switch. Wt., 5 lbs.

B7967. NET.....\$5.44

SPEED-X BUZZER

A professional constant frequency buzzer. Will hold its adjustment. Resistance, 2 ohms. Works on 2 dry cells, or 1 "C" battery. Shpg. wt., 8 oz.

B7966. NET.....\$7.30

CODE PRACTICE SET

A practice key and adjustable buzzer; molded plastic base. Produces high-pitched code signals. Excellent for classes in code instruction. Shpg. wt., 2 lbs.

B7965. NET.....\$1.62

NO. 300

Well-made low-cost practice key for beginners. Base is molded bakelite, walnut finish. All machine parts finished in nickel; $\frac{1}{16}$ " contacts are coin silver. Easy action arm with tension and contact space adjustments. 2 lbs.

B7960. NET.....88c

B7988. Same as above but with cast metal base. NET.....88c



NO. 310 STANDARD

Skeleton frame type. Black wrinkle finish base; other parts nickel plated. $\frac{1}{16}$ " pure silver contacts. Dual adjustments for tension and lever action. 2 lbs.

B7963. NET.....\$1.47

B7989. As above but has circuit closing switch. NET.....\$1.76



NO. 301 AMATEUR'S KEY

Sturdily constructed standard key with molded bakelite base. All metal parts nickel plated. Pigtail connections to arm; no current through bearings. $\frac{1}{16}$ " contacts of coin silver. Shpg. wt., 1 lb.

B7961. NET.....\$1.26



NO. 320 HEAVY-DUTY KEY

Professional key for the Commercial or Amateur operator. $\frac{1}{16}$ "-inch coin silver contacts. Black base. All other parts are attractively chrome plated. Shpg. wt., 2 lbs.

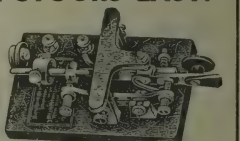
B7962. NET.....\$1.91

WHILE STOCKS LAST!

DELUXE MAC-KEY ONLY

\$5.95

Was \$9.50

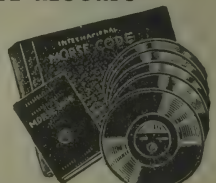


Here's a chance to get one of the finest speedkeys ever made at a price that is ridiculously low. Huge cast base finished in mottled black marble enamel. All metal parts chrome plated. Dot stabilizer; $\frac{1}{16}$ " silver contacts; circuit closer. Wt., 10 lbs.

B7973. NET (While they last)\$5.95

LINGUAPHONE CODE COURSE RECORDS

Learn the radio code quickly and easily with this amazing new code teaching system. Consists of 5 double-faced 10" phonograph records, together with a complete instruction book and album. Sit at home beside your record player, and follow the code as it sounds under actual operating conditions. You'll find it extremely fascinating. Advance by easy stages until you can "copy" code signals on your receiver with ease. You'll really enjoy learning code this simple, practical way. Can be used with any electrical or mechanical phonograph. Ideal for class or group instruction. Shpg. wt., 6 lbs.



B9995. NET.....\$7.50

QUALITY METERS and RELAYS

NEW MEISSNER GEAR

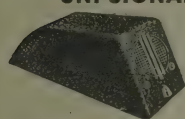


"SIGNAL-RESONATOR"

A single-control auto-tuning unit for use in any transmitter. Will instantly and automatically select desired frequency in any of five bands; handles up to five stages with crystal or ECO control—all at the flip of a "gear-shift" lever and master frequency knob! Shifts frequency or changes bands faster than a receiver can follow! Size, $8\frac{1}{2}'' \times 19'' \times 5''$. Write for descriptive literature, B15247. Wt., 15 lbs.

B15241. NET.....\$28.91

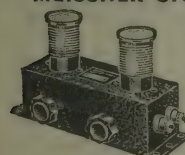
"UNI-SIGNAL SELECTOR"



The most amazing contribution to the CW field in years! An output selector to connect between the receiver and speaker that removes 90% of the tube hiss and background noise. Peaks all CW signals at 1000 cycles; unbelievable selectivity afforded by entrance path only 25 to 40 cycles wide. Will isolate any signal otherwise unreadable because of weakness or QRM. Size, $10'' \times 5'' \times 6''$. Shpg. wt., 5 lbs.

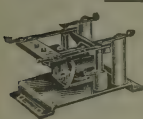
B15246. NET.....\$13.47

MEISSNER SIGNAL SPLICER



Boost signal strength tremendously, decrease stray noise pickup, and improve image rejection with the new Signal Splicer. Provides accurate impedance match between receiver and antenna. Enables you to copy weak signals ordinarily lost. Coils supplied cover majority of amateur frequency ranges. Wt., 5 lbs.

B15240. NET.....\$3.87

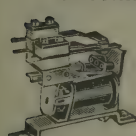


ANTENNA RELAY

Change-over relays for use with any type antenna. Operate on any frequency up to 60 MC. Large, over-size contacts handle a full KW easily. High-grade ceramic insulation. Straight-through feed for transmission lines. Heavy steel base with other metal parts chromium plated. For 110 volts AC. Shpg. wt., 2 lbs.

B15242. NET.....\$4.12

UNIVERSAL RF RELAYS



For high-frequency circuits requiring reliable switching with low losses. Two types listed below will fit any application. Aisimag 196 insulation for all RF parts. Phosphor-bronze contact springs provide fast, positive action. SP type may be used as single or double throw. For 110 volt AC. Shpg. wt., 2 lbs.

B15243. SPDT Type. NET.....\$2.65

B15244. DPDT Type. NET.....\$3.23

DOUBLE-BREAK POWER RELAY



Ruggedly built power relay for handling any switching requirement where heavy currents are present at low frequencies. Will safely break 20 amps. in non-inductive circuit. Oversize energizing coil provides powerful pull for fast positive action. With heavy steel mounting bracket. For 110 volts AC. Shpg. wt., 2 lbs.

B15245. SPST Type. NET.....\$2.79



341



346

THERMO-COUPLE TYPE R.F. AMMETERS

For R.F. use. Especially designed for high frequency operation and accurate to 2%. Model 341 has internal couple; Model 346 has external thermo-couple. Molded bakelite cases; flange mounting type. Model 346 case is $3\frac{1}{2}'' \times 2\frac{1}{2}''$, mounts in $2\frac{1}{2}''$ hole. Model 341 is $3\frac{1}{2}''$ in diam., mounts in $2\frac{1}{4}''$ hole. Shipping weight, 2 lbs. each.

Amps.	341	NET EACH	346	NET EACH
0-1	B8890		B8800	
0-1.5	B8891	\$4.41	B8801	
0-2.5	B8892		B8802	\$6.53
0-5	B8893		B8803	

NEW TRIPLETT MODEL 1696A MODULATION MONITOR



Helps comply with FCC regs. and indicates greatest possible efficiency in carrier power. Incorporates a carrier level meter and a modulation percentage meter calibrated from 40% to 120%. Has neon peak indicator and polarity switch to read both positive and negative peaks. Uses vacuum tube rectification with self-contained power supply and carrier level adjustment. Couples inductively to the antenna circuit. For 110 V. 60 cycle. $14\frac{1}{2}'' \times 7\frac{1}{2}'' \times 4\frac{1}{2}''$. Shpg. wt., 21 lbs.

B9971. Table Model in Metal Case. NET.....\$34.14

Terms \$5.10 down, \$5.13 mo. for 6 mos.

BUD MIDGET PLUG-IN COILS



Compact air-wound inductors for use in all stages with inputs of 50 watts or less. Glazed ceramic mounting base keeps coil away from chassis. Fits 5-prong tube socket. Center link type is center tapped. End link type not tapped. Shpg. wt., $\frac{1}{2}$ lb.

Center Link	End Link	Band	Mmfd.	NET EACH
B14250	B14256	160	90	79c
B14251	B14257	80	75	
B14252	B14258	40	50	88c
B14253	B14259	20	33	
B14254	B14260	10	28	
B14255	B14261	5	18	73c

NEUTRALIZING CONDENSERS

BUD FEED-THRU TYPE



For neutralizing tubes which have grid lead terminating at the base. Provides a more compact installation. Grid lead feeds through ceramic insulated feed-through. Upper plate adjusted by threaded bar. Knurled lock nut permits permanent settings. Single hole mounting. Shpg. wt., 6 oz.

No.	Hole Dia.	Plate Dia.	Cap. Mmf.	NET
B14305	$\frac{3}{8}''$	1"	4	\$0.59
B14306	$\frac{1}{2}''$	$1\frac{1}{2}''$	7.5	1.47

BUD MIDGET TYPE



For use with beam type tubes in transmitters. Has two $1\frac{1}{2}''$ disc plates. Accurately threaded rod for varying capacity. Has knurled lock nut for locking plate into place. Heavy soldering terminals. Ceramic stand-off insulator, crow foot base. 4 oz.

B14307. NET.....\$9.00

Write for special "Bud" Catalog B14265. 40 pages describe complete "Bud" line. Includes tables, charts and graphs for the Ham. ALLIED can supply all "Bud" products promptly.

GUARDIAN RELAYS

MODEL B-100

For use in break-in circuits. DPDT type. Will provide rapid switching from receiving to transmitting. Heavy magnets and springs for clean-speed break. Silver contacts. For 110 volt AC. Wt., 1 lb.

B7570. NET.....\$4.41

MODEL K100. SPST type. Pure silver contacts break clean. Operates from 5 to 16 V. AC or $1\frac{1}{2}$ to 4 V. DC source. 1 lb. B7571. NET.....\$3.23

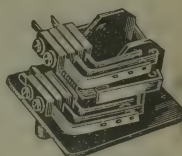
MODEL R-100. For RF circuits up to 1KW and 28 MC. Aisimag 196 insulated. SPST type. For 110 V. 60 cycles. 1 lb. B7572. NET.....\$1.62

MODEL R-100-C. Same as R-100 above, but SPDT type. Shpg. wt., 1 lb. B7573. NET.....\$1.94

MODEL X-100. Adjustable type overload relay. Can be set to open primary circuit at any current load from 150 ma. up to 3.5 amperes. Panel type push-button reset. B7577. NET.....\$5.88

MODEL A-100. Antenna relays insulated with Aisimag 196. Also for heavy duty primary keying or control. Heavy silver contacts handle up to 1 KW in RF circuits up to 28 MC. DPDT type. For 110 V. AC. B7553. NET.....\$3.50

MODEL A-100-C. Same as A-100 above but SPDT type. Wt., 1 lb. B7554. NET.....\$1.94



DUNCO RELAYS

Small, efficient relays for use in all types of remote control circuits. Isolated contacts provide suitable breakdown gap for use at high voltages. Exceptionally fast action; will follow semi-automatic keying without splutter. Silver contacts. Av. shpg. wt., 1 lb.

B7550. Model RA-1. 2.5 volt 60 cycle coil. May be used as plate circuit relay in exciters and buffers, for keying primary circuits, etc.

B7551. Model RA-3. 6.3 volt 60 cycle coil. Also suitable for all purposes but especially adapted to units using 6.3 volt tubes. May be operated from tube filament supply.

B7552. Model RD-1. 5 to 6 volt D.C. coil. For use in all types of battery-powered mobile or portable equipment. NET EACH.....\$1.80

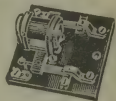


STACO ANTENNA RELAYS

Radio-frequency type antenna change-over relays for use in any antenna system for receiving or transmitting purposes. Will handle 4 A. through pure silver contacts. New floating armature with ball-bearing pivot. Core of finest Swedish iron. All DPDT types, $3\frac{1}{4}'' \times 3\frac{1}{4}''$. ABA and ABD have high-frequency molded insulation and base; AMA and AMD have Mycalex insulation and base. No chatter in AC types. Positive contacts. Wt. 1 lb.

B13855. ABA-110 V. AC. B13856. ABD-6 V. DC. NET EACH.....\$2.55

B13857. AMA-110 V. AC. B13858. AMD-6 V. DC. NET EACH.....\$3.45

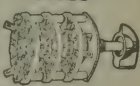


CENTRALAB SWITCHES

New transmitter switches with Isolante insulation for circuit stability and high efficiency. With bar-knob. Ideal as crystal selector, interstage inductance switch, antenna coupling switch, etc. All have four positions, 90° apart, and adjustable stop. For any circuit up to 100 watts at potentials up to 1000 V. DC. Positive contacts. Shpg. wt., 1 lb.

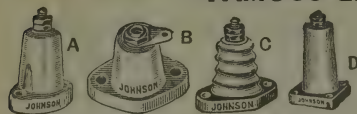
No.	Gangs	Poles	Positions	NET
B1990	1	1	4	\$1.00
B1991	2	2	4	1.59
B1992	3	3	4	2.29
B1993	4	4	4	2.88
B1994	5	5	4	3.59

B1995. Special Dial Plate. Type K-162. Marked 1 to 4. For above switches. NET.....\$1.2c



E. F. JOHNSON PRODUCTS

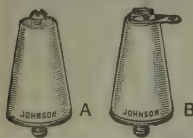
FAMOUS E. F. JOHNSON TRANSMITTING PRODUCTS



STAND-OFF INSULATORS

Made of a superior grade of low absorption high glaze porcelain. Heavy breakage-resistant bases. Nickel-plated brass hardware. Types 65, 66 and 67 have cadmium steel bases. "J" indicates jack type. *Square base type. Wt., 1 lb.

Cat. No.	Type	Fig.	Body Hgt.	Hardware	NET
B13750	20	A	1 1/2"	10-32	8c
B13751	20J	A	1 1/2"	7/4J	10c
B13752	22	A	1"	8-32	5 1/2c
B13753	22J	A	1"	7/4J	7 1/2c
B13754	24	A	3/4"	6-32	4 1/2c
B13755	60	C*	4 1/2"	1/4-20	38c
B13756	62	C*	2 1/4"	1/4-20	21c
B13757	65	C	1 1/2"	10-32	12c
B13758	65J	C	1 1/2"	7/4J	15c
B13759	66	D	2 1/4"	1/4-20	21c
B13760	66J	D	2 1/4"	7/4J	29c
B13761	67	D	4 1/2"	1/4-20	32c
B13762	67J	D	4 1/2"	7/4J	41c



PORCELAIN CONES

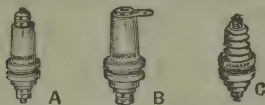
Made of high-grade, white glaze, low absorption porcelain. Furnished with machine screws, top and bottom, and with cushion washer. Deeply threaded for maximum strength. Require only one hole for mounting. Av. shpg. wt., 1 lb.

Cat. No.	Type	Fig.	Body Hgt.	Thread	NET
B13765	600	A	5/8"	6-32	7c
B13766	601	A	1"	8-32	8 1/2c
B13767	601J	B	1"	7/4J	11 1/2c
B13768	602	A	1 1/2"	8-32	11c
B13769	602J	B	1 1/2"	7/4J	14c
B13770	603	A	2"	10-32	15c
B13771	603J	B	2"	7/4J	18c
B13772	604	A	3"	10-32	21c
B13773	604J	B	3"	7/4J	29c

ULTRA-STEATITE CONES

Similar to porcelain cones above but of ultra-steatite for use at high frequencies. Machine screw top and bottom, cork washer.

Cat. No.	Type	Fig.	Body Hgt.	Thread	NET
B13775	500	A	5/8"	6-32	12c
B13776	501	A	1"	8-32	18c
B13777	502	A	1 1/2"	8-32	24c
B13778	503	A	2"	10-32	29c
B13779	504	A	3"	10-32	47c



THRU-PANEL INSULATORS

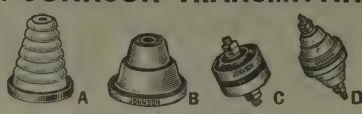
Have high mechanical strength with long leakage paths. Made of white glaze porcelain. Flat mounting surface; cushion washers. Wt., 1 lb.

Cat. No.	Type	Fig.	Top Hgt.	Panel Hole	Hardware	NET
B13780	40	A	1 1/4"	1 1/2"	10-32	15c
B13781	40J	A	1 1/4"	7/4J	18c	
B13782	42	A	7/8"	7/8"	10-32	12c
B13783	42J	A	7/8"	7/4J	15c	
B13784	44	A	5/8"	5/8"	6-32	10c
B13785	45	C	1 1/2"	1 1/2"	10-32	21c
B13786	45J	C	1 1/2"	7/4J	24c	
B13787	45J6J	C	1 1/2"	7/4J	22c	
B13788	46	A	2 1/4"	3/4"	7/64-20	32c
B13789	46J	A	2 1/4"	3/4"	7/64-20	37c
B13790	47	A	4 1/2"	1 1/4"	1/4-20	56c
B13791	47J	A	4 1/2"	1 1/4"	7/61	65c

THREADED BRASS ROD

For use with standoff insulators, through-panel and lead-in bushings. Nickelized; thread 1/4-20.

B13802.	Type 240.	8" long.	NET.....15c
B13803.	Type 241.	10" long.	NET.....18c
B13804.	Type 242.	15" long.	NET.....24c



LEAD-IN BUSHINGS

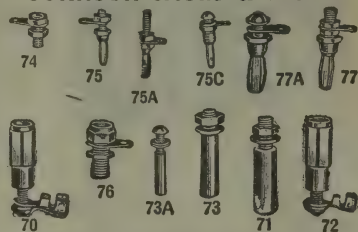
Have many applications in transmitter and antenna installations. Type 55 is ultra-steatite, others are white glaze porcelain. Types 50, 51, 52 and 55 have nickelized brass rod and nuts.

Cat. No.	Type	Fig.	Hgt.	Dia.	Panel Hole	NET
B13793	50	D	1 1/2"	3/4"	1 1/2"	12c
B13794	51	D	1 1/2"	1 1/4"	7/8"	21c
B13795	52	D	1 1/2"	1 1/4"	1 1/4"	29c
B13796	53	B	1 1/4"	2 1/2"	1 1/4"	18c
B13797	54	A	4"	3 1/2"	2 1/4"	41c
B13798	55	C	1 1/4"	3/4"	1 1/2"	18c

MOUNTING FLANGES

Cat. No.	Type	For Bushing	NET
B13800	90	Type 53	15c
B13801	91	Type 54	29c

JOHNSON JACKS & PLUGS



A complete line of highest quality jacks and plugs. Banana type plugs have nickel silver springs; spring sleeve type jacks are nickel plated with phosphor bronze springs. 77A and 73A plugs have long screw for mounting on ceramic coil forms. Av. shpg. wt., 8 oz.

Cat. No.	Type	Length	Thread	NET
B13815	74	8 1/2"	1/4-28	4c
B13816	75	3 1/4"	6-32	4 1/2c
B13817	75A	1 3/4"	6-32	4 1/2c
B13818	75C	1"	6-32	5c
B13819	76	1 3/8"	3/8-24	15c
B13821	77	1 1/2"	1/4-28	12c
B13822	77A	1 1/2"	10-32	15c
B13823	70	1 1/2"	1/4-20	21c
B13824	71	1 1/2"	1/4-28	8 1/2c
B13837	72	1 1/2"	10-32	15c
B13838	73	1 1/2"	10-32	4 1/2c
B13839	73A	1"	10-32	4 1/2c

HI-Q PLUG-IN INDUCTORS TUBE SOCKET TYPE

Mounts in 5-contact tube socket. Rated at 100 W. Ideal for oscillator, low-power amp. stages, etc. Ribbed ceramic forms. Holes provided for internally mounting Johnson "T" condenser. With center tap and center link coupling, or with link at bottom. Shpg. wt., 6 oz.



CENTER LINK			END LINK		
No.	NET	BAND	No.	NET	BAND
B14175	97c	10	B14180	91c	10
B14176	97c	20	B14181	91c	20
B14177	97c	40	B14182	91c	40
B14178	97c	80	B14183	91c	80
B14179	97c	160	B14184	91c	160
B14185.	4-prong coil form only.....	47c			
B14186.	5-prong coil form only.....	47c			

JOHNSON INDICATORS

Attractive tuning indicators which give that much desired Commercial appearance to Amateur transmitters. Handle molded of one-piece black bakelite. Scale is black and silver etched metal, with zero at left. Fit any 1/4" shaft; Type 206 also fits 3/8" shaft. Permits fine adjustment. Average wt., 8 oz.



B13860.	Type 204.	Indicator with 4" diam. scale.	NET.....59c
B13861.	Type 206.	Indicator with 6" diam. scale.	NET....73c

We can supply all E. F. Johnson products. Write for FREE complete catalog, B14064.

TYPE "N" NEUTRALIZING CONDENSERS

Developed for use with low C tubes. Plates are polished aluminum cylinders with high maximum to minimum capacity ratio. Have micrometer adjustment; airgap remains constant. Ultra-steatite insulation. Mount vertically or horizontally. Av. wt., 2 oz.



Cat. No.	Type	Cap. Mmf. Max. Min.	Air Gap	NET
B13840	N125	12 2.5	.125"	\$2.65
B13841	N250	12 2.9	.250"	2.88
B13842	N375	13 3.4	.375"	3.53

"G" CONDENSERS

Designed to provide lowest possible minimum capacity, these condensers are suitable for use with most low C tubes. Plates are polished aluminum with buffed and rounded edges. End plate is of ultra-steatite. With locking device.



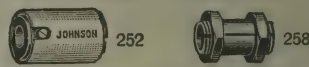
Cat. No.	Type	Cap. Mmf. Max. Min.	Air Gap	NET
B13843	50G20	52 5	.045"	\$1.65
B13844	25G20	27 3.5	.045"	1.47
B13845	23G45	23 6.3	.125"	1.65
B13846	13G45	13 4.3	.125"	1.47
B13847	8G45	7.5 3	.125"	1.34
B13848	12G70	12 5.3	.225"	2.20
B13849	6G70	5.5 3	.225"	1.76

SHAFT COUPLINGS

Flexible insulated shaft couplings with phosphor-bronze springs and absolute freedom from backlash. Insulated with ultra-steatite. Maximum airgap to insure protection from flashover. Wt., 1 lb.



Cat. No.	Type	Shaft	Diam.	NET
B13825	250	1/4x1/4"	1 3/8"	47c
B13826	251A	1/4x1/4"	2 1/4"	82c
B13827	251B	1/4x1/4"	2 1/4"	82c
B13828	251	3/8x3/8"	2 1/4"	82c



Solid shaft couplings for use where extension shaft is necessary without flexibility. Type 252 is insulated with ultra-steatite; leakage path 1/16". Type 258 is cadmium-plated.

B13830. Type 252. Overall length, 1 3/8". 1/4" diam. For 1/4" shaft. NET.....44c

B13831. Type 258. Compression type coupling for 1/4" shaft. NET.....9c

FLEXIBLE SHAFTS

Non-rusting phosphor-bronze flexible shafts with 1/4" hubs. Permit contact of condensers etc. when mounted at angles up to 90 degrees. Hubs will not loosen.

B13832. Type 253. 3" length. NET.....21c

B13833. Type 254. 6" length. NET.....29c



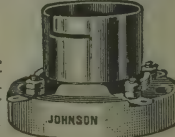
PANEL BEARING & EXTENSION

For use with rigid or flexible shaft couplings. Fit panels up to 3/16" thick. Type 255 is panel bushing only. Of cadmium-plated brass.

Cat. No.	Type	Shaft Length	NET
B13834	255		9c
B13835	256	3"	18c
B13836	257	6"	24c

JOHNSON SOCKETS

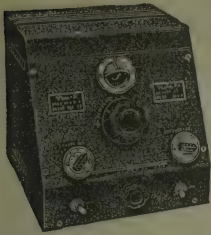
B6140. UX BASE. For type 10, or similar UX base tubes. Porcelain insulation; heavy spring contacts. Wt., 1 lb. NET. 50c



B6141. 50 Watt socket. Porcelain base with heavy dual phosphor bronze contact springs. Cadmium plated. NET.....73c

BLILEY QUARTZ CRYSTALS

VARI-X CONTROL UNIT



Provides instant variable-crystal control of frequency on either 80 or 40 meters, with 2 3/4 watts R.F. output. Easily installed at the operator's control position and coupled to transmitter through 6-foot concentric cable supplied. Either one of two crystals plugged into front panel can be instantly cut-in by selector switch; electric eye indicates resonance; 80 or 40 meter output by rotating the main dial. Greatest frequency range with VF-2 crystals, but VF-1 units can also be used. Operates as conventional oscillator with fixed-frequency crystals. With terminals for relay control from transmitter. Tubes: 1—6U5, 1—6AC7, 1—5W4. For 110 volt, 60 cycles. With AC cord and plug. Shipping wt., 20 lbs.

B2308. Less tubes and crystals. **\$29.90**

tals. NET.....

VF-2 CRYSTALS

Wide-range variable-frequency crystals with maximum change of 12 KC from the fundamental frequency. Developed for use in Vari-X unit above, but can be used in any oscillator where crystal current is low to insure minimum heating. Avg. shpg. wt., 12 oz.

No.	Frequency	Within	NET
B2309	3500-3650	± 5 KC	\$6.00
B2310	3650-3900	± 15 KC	6.00
B2311	3900-4000	± 5 KC	6.00
B2312	3500-4000	EXACT	7.50

SPECIAL A.A.R.S. CRYSTALS

Special 3497.5 KC crystals for Army Amateur Net Stations only. Mounted in holder similar to LD2 crystals. Will operate within .03% of calibrated frequency at a temperature coefficient not exceeding 4 cycles/MC/°C. Shpg. wt., 12 oz.

B2313. NET EACH..... **\$5.50**

ALLIED can supply Bliley crystals for all **BROADCAST, POLICE, MARINE or MOBILE** frequencies between 20 KC and 30 MC. Bliley catalog B2549 with complete data and prices sent free on request.



TYPE LD2

The outstanding crystal for 80 and 160 meter bands. Cut from Brazilian quartz. Frequency drift is less than 4 cycles (±) per megacycle per degree C. Will operate within .03% of specified frequency in standard oscillator circuits at calibration temperature. Specify frequency when ordering. With holder. Shipping weight, 12 oz.

FREQUENCY WITHIN 5 KC.		
No.	Band MC	NET EACH
B2516	3.5-4.0	\$4.80
B2517	1.7-2.0	

EXACT FREQUENCY

No.	Band MC	NET EACH
B2519	3.5-4.0	\$5.90
B2520	1.7-2.0	

TYPE BC3

Accurately calibrated crystal mounted in a molded bakelite holder with heat dissipating stainless steel cover plate. Only 23 cycle drift per MC per degree C. Plugs into 5 prong tube socket. Specify frequency when ordering. Average shipping weight, 12 oz.

Cat. No.	Frequency Within	Band MC	NET EACH
B2525	± 5 KC	7.0-7.3	\$3.35
B2526	± 5 KC	3.5-4.0	
B2611	± 10 KC	1.7-2.0	
B2623	± 25 KC	7.3-7.5	
B2527	EXACT	7.0-7.3	\$4.95
B2528	EXACT	3.5-4.0	
B2518	± 5 KC	7.3-7.5	



CRYSTAL HOLDERS

Molded bakelite pressure-type holders for 1" square crystals. Plug into tube socket. Mount in any position. A safe, convenient holder for transmitter crystals. Shpg. wt., 8 oz.

B2532. 20-40 meter. **\$5.00**

B2533. 80-160 meter. NET EACH..... **\$5.00**



BLILEY CRYSTAL HANDBOOK

A complete handbook on frequency control with quartz crystals, which every Amateur should have. Thirty-one pages explaining theory, use, application, care of crystals.

B2624. NET..... **10c**

TYPE B5

Accurately engineered precision crystal for 20 and 40 meter bands. Drift is less than 4 cycles per MC per degree C. These units are extremely active and are ideal for use where harmonic operation is desired; 40 meter crystals are high output type. Mounted in low-loss holder. Shpg. wt., 12 oz.

No.	Frequencies	Within	EACH
B2615	7.0 to 7.3 MC	5 KC	\$4.80
B2616	7.0 to 7.3 MC	Exact	5.90
B2617	14.0 to 14.4 MC	15 KC	7.50
B2618	14.0 to 14.4 MC	5 KC	12.00
B2619	14.4 to 15.0 MC	30 KC	7.50
B2620	14.4 to 15.0 MC	5 KC	17.50

TYPE HF2

High frequency "C" cut crystals for 10 and 20 meter bands. 20 meter crystals directly applicable to conventional circuits for 14 MC and 28 MC operation; drift is only 20C/MC/°C. 10 meter units recommended for 2 1/2 and 5 meter transmitters; drift is 43C/MC/°C. Details in Bulletin B2624. 12 oz.

No.	Frequencies	Within	EACH
B2521	14.0 to 14.4 MC	15 KC	\$5.75
B2522	14.4 to 15.0 MC	30 KC	
B2523	14.0 to 14.4 MC	5 KC	10.00
B2524	14.4 to 15.0 MC	5 KC	15.00
B2621	28.0 to 30.0 MC	50 KC	5.75

VF-1 VARIABLE FREQUENCY UNIT

Easily adjusted. Fundamental frequency variation up to 6 KC on 3.5 MC units; up to 12 KC on 7 MC units. Drift less than 4C/MC/°C. Plug-in socket. Shpg. wt., 12 oz.

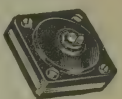


No.	Frequencies	Within	EACH
B2530	3500-4000 KC	± 5 KC	\$6.60
B2534	7000-7300 KC	± 15 KC	6.60
B2515	7000-7300 KC	± 5 KC	8.50
B2531	3500-4000 KC	EXACT	8.50

BLILEY 100-1000 KC UNIT

A special dual frequency crystal sealed in special holder. For use in frequency standards or calibration oscillators; will provide accurate 100 and 1000 KC signal when adjusted to zero beat with Standard Frequency transmissions. 1 lb. Bulletin B2548 sent free on request.

B2534. Type SMC-100. NET..... **\$7.75**



BROWNING LABORATORIES PRODUCTS

COIL & TUNER UNITS

TYPE BL-5G

Tuned grid coil units. Five High-Q cathode-tapped coils shunted with Silver Cap fixed condensers for stability. Mounted on rotary band-switch with tuning condenser. Designed for control of ECO units with harmonic operation on 160, 80, 40, 20 and 10 meter bands. Wt., 1 1/4 lbs. **\$7.20**

TYPE BL-5H

A bandswitching band spread Tuner with 5 High-Q cathode tapped coils. Includes 35-mmf. tuning and band setting condensers, grid leak and condenser combination for use in receiver. Covers 10, 20, 40, 80 and 160 meter bands. Shpg. wt., 1 1/4 lbs. **\$4.80**

TYPE BL-5P

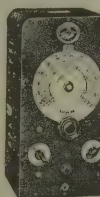
Similar to the BL-5G unit but for plate circuits of oscillator, buffer or doubler stage. Completely assembled. Consists of coils for 160, 80, 40, 20, and 10 meter bands mounted on band-switch. High L/C ratio with 50 mmf. tuning condenser. Wt., 1 1/4 lbs. **\$5.40**

TYPE BL-5PL

Bandswitching coil assembly for operation on 160, 80, 40, 20 and 10 meters. Will handle up to 75 watts input in plate circuit of exciter or transmitter. Each coil has link circuit for output coupling. Can be used with BL-5G and BL-5P units above for construction of an all-band exciter. Shpg. wt., 1 1/4 lbs. **\$7.35**

B10693. NET.....

VISUAL FREQUENCY MONITOR



For precise frequency measurements. Basically a heterodyne frequency meter with built-in mixing circuit. Has 100-1000 K.C. oscillator which can be checked against WWV, and three other oscillators covering 160, 80, 40, 20, 10 and 5 meter bands. Calibrated 5 1/2" dial permits accurate frequency checking. Zero beat indicated on Electric Eye, which also indicates frequency deviation of carrier. Can be read directly without charts or computations. Operates on 110 volts AC or DC, with tubes. Wt., 13 lbs. **\$39.90**



tuning dial with separate band spread control. Kit contains all parts, including 7" x 10" x 6" metal cabinet, drilled chassis and panel dial and complete five-band wired tuner unit. Uses 1—6AC7 tube. Shpg. wt., 9 lbs.

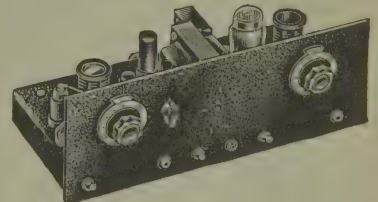
B10687. Complete kit, less **\$16.50**

B10688. Completely assembled and wired Browning Pres-selector. Less tube **\$19.80** and power supply. NET.....

PRESELECTORS

Regenerative type unit covers from 5 to 185 meters in five bands. Provides high-gain for signals otherwise too weak for adequate reception. Tuning is simplified and highly selective by reason of main

KNIGHT "JUNIOR" AMATEUR STATION



Designed for the beginning Ham, this complete Amateur CW station is offered in easy-to-assemble single-unit kit form. The Knight "Junior" is complete! All on one attractive black wrinkle finish chassis and panel; a modern two metal tube Autodyne receiver, a complete power supply, and a modern crystal-controlled CW transmitter using a 6L6G tube with up to 25 watts output to the antenna!

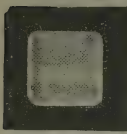
GET ON THE AIR AT LOW COST!

Every necessary part is supplied: chassis and panel drilled and finished, all parts and hardware, even a high quality 80 meter crystal and holder and all tubes! Full instructions and diagrams included. Coil forms and wire are supplied for receiver and transmitter for the 80 meter band. Receiver is regenerative Autodyne type with 6J7 and 6C5 metal tubes. Transmitter puts out pure TFX signal. Single heavy-duty power supply with 52A rectifier tube operates both receiver and transmitter. Operates from 110 volt 50-60 cycle AC, but has provisions for battery operation. Shpg. wt., 24 lbs.

B9537. COMPLETE KIT. Includes every necessary part, tubes, and 80 **\$24.50** meter crystal. NET.....

KNIGHT SPECIAL VALUE AMATEUR PARTS

KNIGHT UNMOUNTED TRANSMITTER CRYSTALS



High quality, inexpensive, unmounted X-cut crystals. Accurately ground from the finest quartz available. Calibration will be within 1% of operating frequency under normal conditions, dependent on type of mounting used. Drift in actual operation negligible. Specify frequency, and closest stock unit will be shipped. **Not available for frequencies outside amateur bands.** Shpg. wt., 1 lb. For suitable mountings see listing on p. 161.

No.	Frequency Band	NET
B2510	7000-7300 KC	\$1.95
B2511	3500-4000 KC	1.50
B2512	1750-2000 KC	1.50

KNIGHT R.F. CHOKES



MIDGET TYPE

Very popular with the Amateur and Experimenter. Inductance, $2\frac{1}{2}$ M. H.; D.C. resistance

16 ohms. Capacity, 150 M.A. Universal type winding in four sections on ceramic core. **B2163. 10 For 98c. EACH. 11c.**



HEAVY-DUTY TYPES

B2164. $2\frac{1}{2}$ MH at 1000 Ma. Five section universal-wound. Res., 5 ohms. With mounting brackets. Wt., 1 lb. **NET. 81c.**

B2165. 5 MH at 500 M.A. Five universal windings on ceramic core. Res., 12 ohms. Shipping weight, 1 lb. **NET. 69c.**

B2166. 2.8 MH at 1000 M.A. Five tapered size universal-wound sections. Ceramic core. Res., 5 ohms. Shpg. wt., 1 lb. **NET. 95c.**

B2167. 5.3 MH at 500 M.A. Same as B2166 but resistance is 12.5 ohms. Wt., 1 lb. **NET. 81c.**



INSULATED GRID CAPS

B6331. Standard size for receiving tubes. Black insulation. **NET EACH. 5c.**

B6333. Large size for transmitting tubes such as 866, etc. **EACH. 9c.**

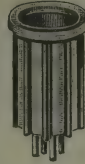


NAVY KEY KNOBS

Molded of black insuloid. For easy keying, $\frac{3}{8}$ " high; $1\frac{1}{2}$ " dia. of lower skirt. 8-32 screw. Relieves finger fatigue. Shpg. wt., 4 oz.

B5730. NET. 9c.

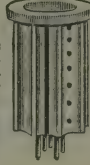
TRANSMITTING COIL FORMS



An ideal inductance form for transmitters and for numerous other uses. Bakelite body, $2\frac{1}{4}$ " diameter, $3\frac{1}{2}$ " long, with molded finger grip rim. Winding space, $3\frac{1}{4}$ ". Ribs extending $\frac{1}{4}$ " insure low-loss air-core winding. Grooved forms are threaded 12 turns per inch. Prong spacings fit standard sockets. Shpg. wt., 6 oz. each.

No.	Prongs	EACH	No.	Prongs	EACH
B2650	4	38c.	B2661	4	53c.
B2651	5		B2662	5	
B2652	6		B2663	6	

KNIGHT CERAMIC COIL FORMS



Plug-in coil forms of low-loss ceramic for use in receivers or low-power stages of transmitters. Ribbed type. Side slot and holes for easy winding. $1\frac{1}{2}$ " diameter, 1 lb.

B2655. 4 Prong. NET. 32c
B2656. 5 Prong. NET. 35c
B2657. 6 Prong. NET. 38c

COIL FORMS



Low-loss coil forms of Insulox. Particularly adapted for high-frequency operation. Threaded for No. 10 wire with plenty of holes for wire and supports. 20 and 40 meter coil forms $2\frac{1}{2}$ "x5". 80 and 160 meter coil forms 4 "x6 $\frac{1}{2}$ ". Average shipping weight, 2 lbs.

FOR 20 AND 40 METERS
B5696. Less supporting legs. \$0.70
B5697. With supporting legs.95

FOR 80 AND 160 METERS
B5698. Less supporting legs. \$1.22
B5699. With supporting legs. 1.35

FLEXIBLE SHAFT COUPLINGS

For use with any condenser having $\frac{1}{4}$ " shaft. Flexible phosphor bronze springs. $1\frac{1}{2}$ " diameter. Shipping weight, 1 lb.

B6115. Bakelite Type. 20c

B6116. Ceramic Type. 27c



SOFT-DRAWN COPPER TUBING

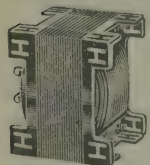


Made of seamless soft drawn copper, annealed. Bends easily. Maximum lengths, 25 feet.

Stock No.	Outside Diam.	Per Foot	Stock No.	Outside Diam.	Per Foot
B2475	$\frac{3}{8}$ "	4c	B2478	$\frac{3}{8}$ "	8c
B2476	$\frac{1}{2}$ "	6c	B2479	$\frac{1}{2}$ "	9c
B2477	$\frac{3}{4}$ "	6c	B2480	$\frac{1}{2}$ "	13c

SPECIAL VALUE KNIGHT TRANSFORMERS

PLATE TRANSFORMERS



TYPE A. For any low-voltage power supply. Rated at 750 V. AC each side of center tap at 200 ma. Uncased; universal mounting brackets. Primary, 110 V. 50-60 cycles. Wt., 8 lbs.

B11007. \$2.65

TYPE B. Similar to above. 1000-750-500 volts

AC each side of center tap at 300 ma. Primary, 110 V., 50-60 cycles. 15 lbs.

B11008. NET. \$4.95

FILTER CHOKES

SWINGING CHOKE



Cap., 200 ma.; inductance swing, 8-30 hy. Flexible insulated wire leads. Size: $3\frac{1}{4}$ "x $3\frac{1}{4}$ ". Fully cased; upright mtg. Wt., 6 lbs. **B11009. NET. \$2.15**

SMOOTHING CHOKE

Cap., 200 ma. Inductance, 20 hy. 70 ohm D.C. resistance. Insulated wire leads. Size, style resist., same as above. **B11010. NET. \$1.95**

FILAMENT TRANSFORMERS



B11011. Uncased, upright mounting type. Solder lug terminals. 2.5 V. at 10 A. for 2-866's or several 2.5 volt tubes. 10,000 V. insulation. Size: $3\frac{1}{2}$ "x $2\frac{1}{4}$ "x $2\frac{1}{2}$ ". Shpg. wt., $\frac{1}{2}$ lb. **NET. 95c.**

B11012. 7.5 Volts at 4 A., and 2.5 Volts at 5 A. Ideal for use in low power multi-stage rigs. Size: $3\frac{1}{2}$ "x $3\frac{1}{2}$ ". Shpg. wt., $\frac{3}{4}$ lb. **NET. \$1.25**

B11013. 6.3 Volts at 6 A. For use with 6L6 or other Beam Power tubes. Size: $3\frac{1}{4}$ "x $2\frac{1}{2}$ "x $2\frac{1}{4}$ ". Shpg. wt., $\frac{1}{2}$ lb. **NET. \$1.05**

PLATE-FILAMENT TRANSFORMER

Fully enclosed case type in upright mounting style. Supplied complete with flexible insulated wire leads. A unit with dozens of uses for Hams and Experimenters. Ratings: Primary, 110 V. 60 cycles. Secondaries: 600-0-600 V. at 200 ma.; 6.3 V. at 4 amps.; 6.3 V. at 3 amps.; 5 V. at 3 amps. Mtg. area $3\frac{1}{4}$ "x $4\frac{1}{4}$ ". Shpg. wt., 13 lbs. **B11006. NET. \$2.85**



HIGHEST QUALITY INSULATORS



Pillar insulators (C) made of stearite; all others of low absorption high tensile strength porcelain. Smoothly glazed to decrease surface leakage. All hardware nickel-plated brass. (Also see metal base type below.)

Cat. No.	Fig.	Height	Hardware	NET
B8195	D	$5\frac{1}{2}$ "	6-32	3 $\frac{1}{2}$ c
B8196	D	$1\frac{1}{2}$ "	8-32	4c
B8200	D	$1\frac{1}{2}$ "	Jack	5c
B8201	D	$1\frac{1}{2}$ "	10-32	6c
B8202	D	$1\frac{1}{2}$ "	Jack	8c
B8203	D	$1\frac{1}{2}$ "	Jack	19c
B8204	D	$2\frac{1}{2}$ "	$\frac{1}{4}$ -20	29c
B8205	D	$2\frac{1}{2}$ "	Jack	26c
B8206	D	$4\frac{1}{2}$ "	$\frac{1}{4}$ -20	26c
B8207	D	$4\frac{1}{2}$ "	Jack	40c
B8208	B	$5\frac{1}{2}$ "	6-32	5c
B8209	B	$1\frac{1}{2}$ "	8-32	7c
B8210	B	$1\frac{1}{2}$ "	Jack	10c
B8211	B	$1\frac{1}{2}$ "	10-32	9c
B8212	B	$1\frac{1}{2}$ "	Jack	12c
B8213	B	$2\frac{1}{2}$ "	$\frac{1}{4}$ -20	14c
B8214	B	$2\frac{1}{2}$ "	Jack	24c
B8215	C	$1\frac{1}{2}$ "	6-32	14c
B8216	C	$1\frac{1}{2}$ "	Jack	16c
B8217	C	$1\frac{1}{2}$ "	6-32	16c
B8218	C	$1\frac{1}{2}$ "	Jack	19c
B8219	C	$2\frac{1}{2}$ "	6-32	22c
B8220	C	$2\frac{1}{2}$ "	Jack	22c
B8221	C	$2\frac{1}{2}$ "	$\frac{1}{4}$ -20	28c
B8222	C	$2\frac{1}{2}$ "	Jack	53c
B8223	C	$4\frac{1}{2}$ "	$\frac{1}{4}$ -20	58c
B8224	C	$4\frac{1}{2}$ "	Jack	64c

METAL BASE INSULATORS

B8225	E	$1\frac{1}{2}$ "	10-32	10c
B8226	E	$1\frac{1}{2}$ "	Jack	13c
B8227	A	$2\frac{1}{2}$ "	$\frac{1}{4}$ -20	18c
B8228	A	$2\frac{1}{2}$ "	Jack	24c
B8229	A	$4\frac{1}{2}$ "	$\frac{1}{4}$ -20	26c
B8230	E	$4\frac{1}{2}$ "	Jack	34c

FEED-THRU INSULATORS

Made of highly vitrified, low absorption porcelain. Long insulating sleeves. Exposed surfaces smoothly glazed to prevent dust accumulation. Supplied with cork-mounting washers and brass nickel-plated hardware. Wt., 4 oz.



Cat. No.	Fig.	Top Panel Hole	Hardware	NET
B8231	A	5/8"	5/16"	6-32 7c
B8232	A	1 1/2"	1/8"	10-32 10c
B8233	A	1 1/2"	1/8"	Jack 12c
B8234	A	1 1/2"	1/8"	10-32 12c
B8235	A	1 1/2"	1/8"	Jack 14c
B8236	A	2 1/2"	1/8"	1/4"-20 29c
B8237	A	2 1/2"	1/8"	1/4"-20 26c
B8238	A	2 1/2"	1/8"	Jack 40c
B8239	B	1 1/2"	1/8"	10-32 19c
B8240	B	1 1/2"	1/8"	Jack 22c
B8241	B	2 1/2"	1/8"	1/4"-20 34c
B8242	B	2 1/2"	1/8"	Jack 42c
B8243	B	4 1/2"	1/8"	1/4"-20 50c
B8244	B	4 1/2"	1/8"	Jack 58c

BUTTON-TYPE FEED-THRU BUSHING

For use wherever it is necessary to pass voltage or R.F. current through metal panels or chassis. Low-loss ceramic, $\frac{3}{8}$ " diam., with center hole for 6-32 screw. Fits $\frac{3}{8}$ " hole, 8 oz. (12). **B8246. PER DOZEN. 20c.**

BEE-HIVE INSULATOR

For supporting coils, condensers, high voltage leads, etc. Made of brown glazed porcelain, $2\frac{1}{2}$ " diam.; $2\frac{1}{4}$ " high. Extra-strong; fully weatherproofed for outdoor use. Shpg. wt., $1\frac{1}{2}$ lbs. **B8247. 10 For 84c. 9c.**



KNIGHT STAND-OFF INSULATORS

High-grade glazed porcelain construction with deep corrugations. Cadmium-plated brass hardware. **B8248. $5\frac{1}{4}$ " high, with base $2\frac{1}{4}$ " square. Wt., 2 lbs. 37c.**
B8249. $3\frac{3}{4}$ " high, with base $1\frac{1}{4}$ " square. Wt., 1 lb. 18c.
NET EACH. 18c.



CABINETS - RACKS - PANELS

BUD DELUXE STEEL CABINETS



Attractive, modern streamlined design with rounded corners and chromium trim top and bottom. Recessed front so panels fit flush with no protruding edges. Constructed of heavy steel; holds any type of radio equipment. Drilling is universal for all 19" rack panels with either Amateur or Western Electric notching. Full length removable hinged door at rear held in closed position by two nickel-plated snap catches with provision for installing Cabinet Interlock switch if desired. Inside depth, 16". Width overall, 22". Available in Black or Grey wrinkle-finish; Black is supplied unless Grey is specified. Shipped knocked down with all hardware for assembly.

Cat. No.	Panel Space	Overall Height	Shpg. Wt.	NET EACH
B14700	42"	47"	100 lbs.	\$24.07
B14701	61 1/4"	66 1/2"	140 lbs.	30.87
B14702	77"	82"	165 lbs.	36.75

BUD DELUXE TABLE CABINETS

Of heavy steel with recessed hinged top covers. Cabinets marked * have solid top and hinged door at rear. Drilled for any 19" rack panel. Completely assembled. Inside depth, 14 1/4"; overall width, 22". Black or grey crackle finish. Shpg. wt., 20 to 50 lbs.

Black No.	Grey No.	Panel Space	Overall Height	NET EACH
B14713	B14765	8 3/4"	10 3/4"	\$ 7.35
B14714	B14766	12 1/4"	14 1/4"	8.82
B14715*	B14767*	17 1/2"	19 1/2"	11.76
B14716*	B14768*	26 1/4"	28 1/4"	13.23
B14717*	B14769*	35"	37"	14.70

BUD RACK PANELS

For cabinets and racks on this page, and all others having standard Amateur spacings in 1 1/4" multiples. Uniform finish and slotting. All steel, 1/8" thick, 19" wide.

Black Wrinkle	Grey Wrinkle	Size	Shpg. Wt.	NET EACH
B14722	B14740	1 3/4"	2 lbs.	\$0.44
B14723	B14741	3 1/2"	3 lbs.	.50
B14724	B14742	4 1/2"	4 lbs.	.60
B14725	B14743	7"	5 lbs.	.69
B14726	B14744	8 3/4"	7 lbs.	.82
B14727	B14745	10 1/2"	8 lbs.	1.00
B14728	B14746	12 1/4"	9 lbs.	1.18
B14729	B14747	14"	10 lbs.	1.35
B14730	B14748	15 3/4"	12 lbs.	1.53

BUD RELAY RACK BRACKETS

Afford easy mounting of chassis bases and subpanels to relay rack panels. Made of auto-body steel. Black lacquer finish. Shpg. wt., 2 lbs.

B14750.	5" Base.	PER PAIR.....	41c
B14751.	7" Base.	PER PAIR.....	53c
B14752.	9" Base.	PER PAIR.....	65c

METER PANELS

Heavy steel, black crystalline meter panels. Slotted to fit standard relay racks. 5 1/4" x 19". Thickness of panel 1/8". Shpg. wt., 4 lbs.

Cat. No.	Holes	Meter Size	NET
B14753	5	2"	\$1.43
B14754	3	2"	.97
B14755	5	2"	1.33
B14756	3	3"	.97

BUD RACK & CABINET DOLLIES

For use with relay rack or cabinet type equipment. Permit moving of equipment without dismantling. Frames of heavy steel finished in black wrinkle; high-grade composition wheels will not scratch polished floors. RD-505 and RD-506 for cabinets having base size from 14" x 18" to 17" x 21". RD-507 and RD-508 fit cabinets having base size from 15" x 20" to 18" x 22 1/2". RD-506 and RD-508 are heavy-duty units ideal for heavy transmitters.

No.	Type	Wt.	Wheels	NET
B14703	RD-505	9 lbs.	1 1/2"	\$3.38
B14704	RD-506	10 lbs.	2"	5.14
B14705	RD-507	10 lbs.	1 1/2"	3.97
B14706	RD-508	11 lbs.	2"	5.73

We can supply all types of steel cabinets, racks and panels, mounting equipment, etc. Describe your needs and we shall quote promptly.

BUD RELAY RACKS

Designed for Transmitters or Public Address Systems. Heavy channel iron construction assures maximum rigidity and keeps all units in alignment. Heavy wrought steel base is drilled for floor mounting. Accurately drilled for mounting either W.E. or Amateur notched panels. Standard size to accommodate 19-inch rack panels. Shipped in knock-down form. Complete with necessary nuts and bolts for assembly. Will make professional-appearing Transmitter or Public Address Installations.



35 1/2 INCH RACK

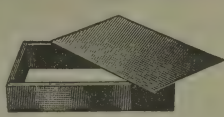
B14720. Shipped knocked-down. Complete with hardware. Weight, 32 lbs. **\$9.40**

70 1/2 INCH RACK

B14721. Shipped knocked-down. Complete with hardware. Weight, 45 lbs. **\$11.15**

BUD REMOVABLE TOP CHASSIS

New type chassis base made of auto-body steel. Consists of channel-type frame with removable flat top. Permits changes in circuit and layout at minimum cost. Easy to cut holes for sockets, transformers, etc. Also allows close wiring of components under top of base without sides interfering with use of tools. Black crackle finish. Replacement tops are listed below.



No.	Size	Shpg. Wt.	NET
B14707	10"x17"x3"	5 lbs.	\$1.18
B14708	10"x17"x4"	6 lbs.	1.59
B14709	13"x17"x3"	9 lbs.	1.76
B14710	13"x17"x4"	10 lbs.	2.20

REPLACEMENT TOP PLATES

For use with removable top chassis bases listed above; provides a new chassis at less than half the usual cost. Heavy-gauge auto body steel.

B14711	10"x17"	2 lbs.	59c
B14712	13"x17"	4 lbs.	73c

METAL NAME PLATES



Made of brass with characters and borders chromium plated. Backgrounds etched dull black. Available in 104 different markings, among which are the following: Microphone, Phone, Input, Antenna, Key, Rectifier, etc. Write for complete list, B2889. Standard size plate, 1 1/2 x 3 1/2. Furnished with self-tapping screws. STATE MARKING DESIRED WHEN ORDERING.

B2885. NET EACH..... **6c.**

DELUXE SIZE

Similar to above but larger; 2 1/2 x 1 1/2. Especially designed for transmitters, etc. WRITE FOR COMPLETE PLATE LIST B2889. STATE MARKING DESIRED WHEN ORDERING. B2888. NET EACH..... **10c.**

CALL LETTER PLATES

Polished aluminum call-letter plate with black background. Has two threaded studs on rear for panel mounting on transmitter. Has removable cast brackets for mounting on car license plate holder. Individually made to order. Shpg. wt., 1 1/2 lbs.



B2886. NET EACH..... **\$1.25**

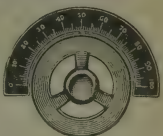
ILLUMINATED CALL LETTERS

A Crowe product. Polished chrome border with black background and green letters illuminated from rear. Two alphabet sets supplied. With reflector box and sockets for 110 volts. Less bulbs. Wt., 2 1/2 lbs. B2887. NET..... **\$2.35**



GORDON HAND WHEELS

A complete line of tuning control wheels which permit uniform appearance on all types of transmitting equipment. Bakelite wheels with pointers fit all 1/2" shafts. Hand wheels with 270° scale for gain controls. Avg. wt., 8 oz.



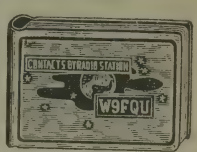
B2626.	3 1/4" Hand Wheel and Pointer with 180° scale. NET.....	\$1.12
B2627.	2 1/4" Hand Wheel and Pointer with 180° scale. NET.....	94c
B2628.	1 5/8" Hand Wheel and Pointer with 180° scale. NET.....	73c
B2629.	1 1/8" Hand Wheel and Pointer with 180° scale. NET.....	47c
B2630.	1 1/4" Hand Wheel and Pointer with 270° scale. NET.....	53c

HAND WHEELS ONLY

Same as above, with pointer, less scale.		
B2635.	3¼" Hand Wheel only.	NET.. 82c
B2636.	2¼" Hand Wheel only.	NET.. 71c
B2637.	1½" Hand Wheel only.	NET.. 29c
B2638.	1⅛" Hand Wheel only.	NET.. 24c

GORDON QSL CARD ALBUM

Handsomely bound in durable red grained morocco composition leather with gold colored embossing. Enables you to keep a well-ordered file of all QSL cards received. Contains 50 looseleaf pages for holding 20 cards. Will accommodate 50 more pages. Sheets compression-held with adjustable posts and interleaved to prevent bulging. Page size, 9 1/2 x 14 1/4. Inside posts prevent marring of table or shelf. Shpg. wt., 5 lbs. B2640. NET..... **\$2.47**



B2639. 50 sheet refill for above. With stub sheets and longer posts. NET..... **83c**

GORDON DX WORLD CLOCK

A modernistically designed electric clock especially developed for the Amateur and Short Wave DX fan. Has multiple colored dials which tell the time accurately in GMT and Standard time in any part of the world. Direct reading type; no complex tables or charts to refer to. Absolutely noiseless, self-starting genuine Waltham movement. Operates on 110 Volt, 60 cycle only. Shpg. wt., 7 lbs. B10133. NET..... **\$8.82**



WORLD TIME CHART

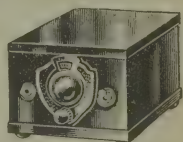
& S. W. STATION LIST

Indicates time in 122 countries instantly. Lists 111 Short Wave stations. Valuable for the Amateur and SW listener. Shipping wt., 4 oz. B5235. NET..... **10c**



LISTENING MONITOR

For Amateur station monitoring, checking quality of emitted signal or phone carrier, or for frequency drift check. (Not a receiver.) Completely wired. Has a vernier type dial and variable condenser for frequency selection. Standard jack for headphone plug. Supplied complete with coils for 20, 40 and 80 meter Amateur bands (160 and 10 meter coils not available). Less tubes and batteries. Steel case, 5" x 7" x 10", finished in black crackle enamel. Requires 1-30 tube, 1-1 1/2 V. "C" battery and 1-22V V. "B" battery. Wt., 8 lbs. B9193. NET..... **\$4.45**



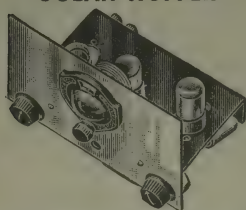
MALLORY PANEL BUSHING

For use with shafting, to mount condensers, etc., away from panel. Fits 1/4" shaft; panels up to 5/8". B6120. 10 for 44c. EACH..... **5c**



KNIGHT "Build Your Own" KITS

NEW KNIGHT AC-DC "OCEAN HOPPER"



An extremely efficient, easy-to-build receiver of modern design. Appropriately named "Ocean Hopper" because its possibilities are almost unlimited for far-reaching reception. One of the most successful "Knight" kits. Equipped with modern up-to-date tubes. Uses two new single-ended bantam tubes which do the work of three, 1-12SJ7GT High Gain R.F. pentode in an electron-coupled regenerative circuit and 1-70L7GT Beam Power output and diode rectifier combined. Features a vernier tuning dial; regeneration control; antenna loading control. Has built-in power supply for AC or DC, 115 V. operation. Kit contains drilled metal chassis base and panel, sockets, condensers, resistors, wiring diagram, etc. Coils, tubes, speaker and headphones are extra—see below for listing. Shpg. wt., 8 lbs.

B9800. Complete Kit of parts. \$5.95 YOUR PRICE

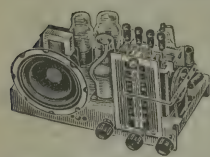
B9802. Tube Kit. Consists of 1-12SJ7GT and 1-70L7GT. **NET.....\$1.67**

B9845. Coil Kit. Set of 4 coils for kit above. Tune 16 to 195 meters. **.....\$1.25**

B5690. Broadcast Coil Kit. 2 coils cover range from 190 to 550 meters. **NET.....65c**

B9801. 5" P.M. Speaker and transformer for use with above kit. **NET.....\$1.78**

KNIGHT "5" PUSH-BUTTON SUPERHET KIT



A modern, highly efficient superhet receiver covering from 1700 K.C. to 550 K.C. Push-buttons, conveniently located at top of set, enable you to automatically select 4 of your favorite stations. This

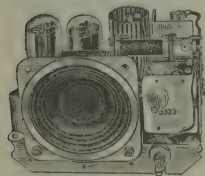
does not interfere with the manual tuning of the receiver. Push buttons are easily and quickly set by hand. No tools are required. Uses attractive-looking slide-rail dial and has finished, professional appearance when used with cabinet below. Has tone control; manual and automatic volume control. Uses 1-6A8G, 1-6K7, 1-607G, 1-25L6G, and 1-25Z6G tubes. Kit is supplied with drilled chassis, condensers, resistors, sockets, dynamic speaker, etc. Size of chassis is 11"x5 3/4"x1 3/4". For 115 V., 60 cycles A.C. Shpg. wt., 10 lbs.

B9825. Complete Parts Kit. \$6.25 Less tubes and cabinet. **NET.....**

B9826. Tube Kit. 1-6A8G, 1-6K7, 1-607G, 1-25L6G, and 1-25Z6G tubes. **NET.....\$1.97**

B9827. Wood Cabinet for above, 13 1/2"x8"x6 3/4". Wt., 4 lbs. **NET.....\$2.25**

"TINY KNIGHT" 4-TUBE A.C.-D.C. TRF KIT



An extremely compact, sensitive set. Looks like factory-made receiver when used with cabinet below. Uses high-gain coils tuning from 175 to 560 meters. Well engineered design results in maximum sensitivity and selectivity.

Has a 2 gang condenser, selector with switch, and built-in wire antenna. Supplied complete, less only tubes and cabinet. Includes drilled chassis base. For 115V. AC or DC. Shpg. wt., 5 lbs. **\$4.75**

B9588. NET.....

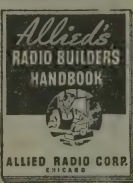
B9589. Plastic walnut finish cabinet. Size, 7"x5"x4 1/2". Wt., 1 lb. **NET.....79c**

B9587. Tube Kit. 6K7GT, 6J7GT, 25L6GT and 25Z6GT tubes. **NET.....\$1.65**

A wide range of new easy-to-build kits for the beginner and the advanced experimenter. All **KNIGHT** kits can be assembled in a minimum amount of time. Chassis bases are punched and drilled; only screwdriver, pliers and soldering iron required for assembly. Even the radio novice can build these sets. We can also supply matched parts lists for any set featured in construction articles in any radio publication.

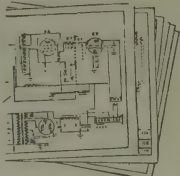
BUILDER'S HANDBOOK

Sixth edition. Revised and enlarged. Prepared by **ALLIED**'s engineers to aid the experimenter and builder. Tells how to select suitable circuits, read diagrams, lay-out and punch chassis bases, etc. Shows schematic and pictorial diagrams of beginner and advanced sets, photo-cell and transmitter circuits. 3 1/2" x 11". **B1753. NET..... 10c.**



"BUILD-YOUR-OWN" WIRING DIAGRAMS

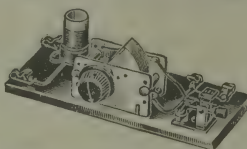
Clear, easy-to-read diagrams with complete matched parts lists. Enable you to build your own receivers, transmitters, amplifiers, power supplies and gadgets, using the latest type tubes and modern efficient circuits. Designed for performance and appearance.



- B1770. Crystal Set.**
- B1790. 1 Tube "Short Wave" Set.**
- B1780. 1 Tube AC-DC SW-BC Set.**
- B1758. 2 Tube DX'er SW Battery Set.**
- B1791. 2 Tube "Ocean Hopper."**
- B1760. 4 Tube AC Broadcast TRF.**
- B1761. 4 Tube AC-DC Broadcast TRF.**
- B1762. 4 Metal Tube "Super-Gainer."**
- B1776. 4 Tube 1.4 Volt Portable.**
- B1779. 5 Tube AC-DC Broadcast Super.**
- B1764. 5 Tube Skip-Band AC Super.**
- B1772. 5 Tube 2 Band AC-DC TRF.**
- B1765. 5 Tube AC Broadcast TRF.**
- B1794. 5 Tube AC Broadcast Super.**
- B1768. 5 Tube Improved Ham Super.**
- B1766. 6 Tube Broadcast Battery Super.**
- B1792. 6 Tube BC and SW Set.**
- B1773. 6 Tube 2 Band AC Super.**
- B1767. 6 Tube All-Wave Super.**
- B1781. 6 Tube 6 Volt Skip Band Super.**
- B1741. Experimenters' Kit and 1 Tube Set.**
- B1742. Beat Oscillator Kit.**
- B1743. Wireless Phono Oscillator.**
- B1744. Tiny Knight 4-T. AC-DC TRF.**
- B1745. 1 Tube Pocket Set.**
- B1746. Junior Receiver X-mitter.**
- B1777. 2 1/2 Meter Transceiver.**
- B1747. 20 Watt Transmitter.**
- B1769. Volume Expander for Radio or PA.**
- B1793. 4 Watt AC-DC Amplifier.**
- B1771. 3 Watt Amplifier and Power Supply.**
- B1752. Photo-Electric Cell Unit.**
- B1776. Noise Silencer.**
- B1782. Coil Winding Data.**
- B1750. 1 Tube Phono-Audio Amplifier.**
- B1740. 3 Tube Phono Amplifier.**
- B1757. 3 Tube Hi-Gain Phono Oscillator.**

YOUR PRICE. EACH DIAGRAM..... 5c
Choice of Any 6 Diagrams..... 20c

Schools—colleges—radio clubs. Write for our attractive quantity prices for wiring diagrams.



KNIGHT CRYSTAL SET KIT

A crystal set that anyone can build. Supplied in easy-to-assemble kit form. Will provide unusually fine reception of local broadcast stations. Kit contains baseboard, wound coil assembly, variable condenser, crystal detector, connectors, hardware, wire, color-coded wiring instructions, and diagram. Shpg. wt., 4 lbs. **\$1.30**

B9867. NET.....

B2806. Headset. NET.....97c

B3485. Aerial Kit. NET.....37c

NEW 2-TUBE DX-ER KIT

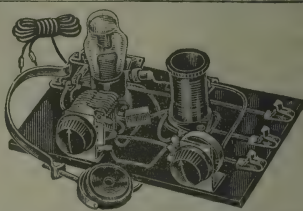
The newest version of the most popular low-priced kit for the short-wave beginner, experimenter, and radio student. Uses two economical 1.4 volt tubes (1H5G and 1N5G in advanced) circuit employing high-gain regenerative detector and resistance-coupled pentode audio stage. With "on-off" switch. Operates from 1-1 1/2 V. dry cell and 2-45 V. "B" batteries. Kit contains all parts, including drilled panel and baseboard. (See B5565 and B5566 below for suitable coils.) Accessories listed below are extra. 6 lbs.



B9880. NET.....\$3.25

B9881. Tube and Battery Kit. Shipping weight, 20 lbs. **NET.....\$3.37**

B2806. Headphones for above..... **97c**



KNIGHT 1-TUBE 6 BAND KIT

The easiest-to-build one-tube battery-operated set. Six band continuous coverage from 9.5 to 550 meters using coils listed below. Brings in broadcast, amateur, police and SW DX stations. Uses a type 30 tube. Kit includes all parts, and instructions. Less tube and coils which are listed below. Wt., 4 lbs. **\$2.25**

B9828. Kit less accessories.....

B9831. Tube and Battery Kit.....\$1.75

B2813. Headphone for above..... **65c**

COILS FOR ABOVE KITS

B5565. Coil Kit. Set of four coils covering 9.5 to 217 meters. Wt., 2 lbs. **NET.....85c**

B5566. Coil Kit. Set of 2 coils covering 190-550 meters. Wt., 2 lbs. **.....65c**

AUDIO AMPLIFIER KIT

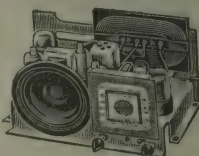
A one-tube audio amplifier for any battery receiver. Uses 1-1Q5GT beam power tube. Will operate a small PM speaker. Requires 1-1 1/2 V. "A," 1-4 1/2 V. "C," and 2-45 V. "B" batteries. Especially designed for use with above two receivers. Add 4 1/2 V. "C" to batteries used with the 2 Tube DX-ER kit. Add 4 1/2 V. "C" and one extra 45 V. "B" to the 1 Tube 6 Band kit. Less tube, speaker and batteries. 4 lbs. **B9813. Kit less accessories. \$1.30**

NET.....

B902. Raytheon 1Q5GT tube.....67c

KNIGHT 5-TUBE AC-DC SUPER

An efficient superhet kit using 5 of the new low-draw tubes. Tuning range is 535 to 1720 K.C. Features a built-in "Air Magnet" aerial—no added antenna is required. The full 2 watt output is easily handled by the 5" PM speaker. Uses 12A8GT converter-oscillator, 12K7GT IF amplifier, 12Q7GT diode detector-1st audio-AMC, 35L6GT power output, and 35Z5GT rectifier. No ballast tube or heater cord is required. Has provision for television and may be used with any Record Player. The beautiful Pearlloid illuminated dial is calibrated directly in kilocycles. Circuit employs full automatic volume control which minimizes fading and distortion. Kit is easily assembled on the punched chassis base. You need only a solder iron, pliers and screwdriver. For 115 V. AC or DC. Shpg. wt., 9 lbs.



B9810. Complete kit of parts \$5.25 less tubes and cabinet. **NET.....**

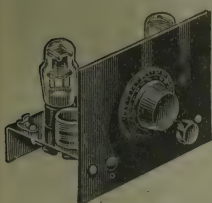
B9812. Beautiful walnut table cabinet for above. 12" x 7 1/4" x 7". Wt., 4 lbs. **.....\$2.25**

B9811. Tube kit for above..... **\$1.95**

LATEST "Build Your Own" KITS

PHILMORE KITS

2 TUBE AC-DC RADIO KIT



An unusually compact and easy-to-assemble 2-tube set which operates from 110 volts A.C. or D.C. Uses 2 type 76 tubes in an exceptionally efficient circuit. Has standard variable condenser for greater selectivity in tuning. Tubes standard Broadcast band and (with extra coils below) Short Wave bands down to 17 meters. Complete with drilled chassis base, B.C. coil, all necessary parts, and instructions. (Less tubes and headphones.)

Shpg. wt., 5 lbs. **\$3.23**
B7057. NET.....
B1351. Knight 76 tube. EACH.....32c
B7058. Kit of 4 coils (17-200 meters).....72c

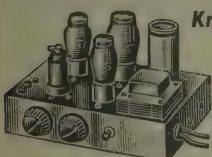
3 TUBE BATTERY KIT & SPEAKER



A dandy new battery-operated 3-tube set in easy-to-assemble kit form. Uses new 1 1/2 volt tubes which provide for efficient performance. Covers Broadcast band and (with extra coils below) Short-Wave bands down to 17 meters. Complete kit includes P.M. speaker and all necessary parts (less tubes, batteries, and extra coils). With instructions. Wt., 6 lbs.

\$5.10
B7064. NET.....
B7065. Tube and Battery Kit. Includes 1-1C5G and 2-1H5G tubes; 1-1 1/2 V. dry "A", 2-45 V. "B", and 1-7 1/2 V. "C" batteries. Shpg. wt., 24 lbs. NET.....\$4.39
B7066. Kit of 3 coils (17-200 meters).....72c

Knight VOLUME EXPANDER



For use with all receivers or amplifiers to provide true reproduction of Broadcast programs or phonograph records. Provides greater fidelity of reproduction by restoring the original ranges which are usually suppressed. Easy to assemble. Kit includes all parts except tubes; chassis base supplied punched and drilled. Wt., 9 lbs. for 115 V. 60 cycles. **\$6.65**
B9892. Less tubes. NET.....
B9893. RCA Tube Kit. NET.....\$1.75

Knight 4-WATT AMPLIFIER KIT



A high-quality AC-DC amplifier kit for reproducing phono records at low cost. Ideal for modernizing old phono equipment to achieve full realistic reproduction of all types of recordings. Uses 1-6C8G, 2-25L6G, 1-25Z5 tubes and 1 ballast. Has input connections for a high-impedance crystal pickup. (See page 98 for pickups.) Output is for any FM speaker and output transformer. Tone control permits accentuation of treble or bass ranges as desired. Overall size with tubes inserted is 4"x8"x6 1/2". Operates from 115 V. AC or DC. Less tubes, pickup, and speaker. Shpg. wt., 8 lbs. **\$4.75**
B9557. NET.....
B10056. RCA Tube Kit.....\$2.68
B9583. Jensen 8" PM speaker and output transformer. NET.....\$3.29

CATHODE RAY TUNING UNIT



An inexpensive visual tuning indicating Magna Eye tubes 6E5 or 6G5. Easily installed in any Broadcast, All-Wave or Short Wave set having AVC, not equipped with visual tuning device. Assembly includes mounting brackets and color-coded cable. Less tube. Wt., 2 lbs. **\$73c**
B1987. NET.....

SCOOP! RCA BEGINNERS'

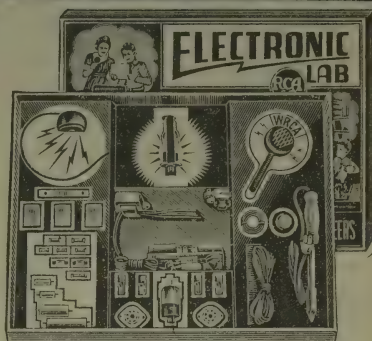
ELECTRONIC LAB KITS

- Build A Real Radio Receiving Set
- Build Interesting Electronic Devices
- Make Your Own Code Practice Set
- Use The Mike As Home Broadcaster

A real innovation—the most remarkable combination radio kits ever offered to radio beginners! Practical—educational—fascinating. Designed and produced by world-famous RCA, these kits enable you to learn radio by actually building practical, working equipment. Complete materials—down to the smallest part—and exceptionally clear instructions supplied to build: a radio receiver—tunes in stations within a 25 mile radius (or further); a home "announcer"—permits you to "broadcast" through your home radio set; a code practice oscillator—so you can learn wireless code; an electronic relay system—so you can construct a burglar alarm. There are dozens of experiments you can perform and there are dozens of thrills awaiting you.

IT'S EASY TO LEARN RADIO

Here's the ideal way to learn radio—the easy way in which you learn by building equipment that really works. You'll learn the theory and practice of radio circuits... how to "send and receive" code messages... how to solder... how to assemble radio equipment. The detailed 16-page manual—including diagrams, point-to-point wiring instructions, and easy-to-follow discussions of radio theory—is complete and authoritative. Here are the perfect kits for radio newcomers!



ONE TUBE LAB KIT

Complete kit includes: RCA radio tube, condenser, resistors, transformer, solder and electric soldering iron, headphone, microphone, relay, telegraph key, mounting board, hardware, wire, instructions. For 110 volts, 60 cycles, AC. Shpg. wt., 8 lbs. **\$16135. RCA 1 Tube Lab Kit \$2.95**
 List, \$7.50. **SPECIAL NET PRICE.....**

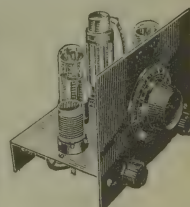
TWO TUBE LAB KIT

Similar to above, but builds a two-tube radio receiver. Includes all necessary parts as listed above. For 110 volts, 60 cycles, AC. 8 lbs. **\$16136. RCA 2 Tube Electronic Lab. List, \$8.95. SPECIAL NET PRICE.....\$3.75**

MEISSNER "BUILD-YOUR-OWN" KITS

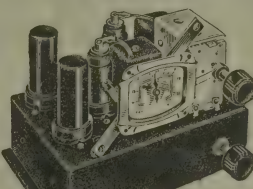
STUDENT "MIDGET" KITS

These outstanding new kits are ideal for the radio newcomer and experimenter. The use of 1.4 volt tubes provides high efficiency and economy of battery consumption. Each kit includes coil for the Broadcast band. Clear instructions for wiring and operating are supplied. Educational and practical.



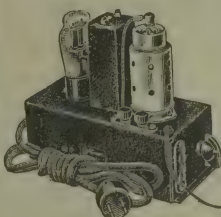
B9560. 1 TUBE KIT. For head-phone reception. Uses 1-1E4G tube, 1-1 1/2 V. "A", and 1-45 V. "B" battery. Less tube and batteries. Wt., 3 lbs. **\$2.94**
NET.....
B9561. 2 TUBE KIT. Requires 1-1C5G, 1-1E4G tubes, 1-1 1/2 V. "A", 2-45 V. "B", and 1 7/2 V. "C" batteries. Less tubes and batteries. Shpg. wt., 3 lbs. **\$3.53**
NET.....
B9562. 3 TUBE KIT. Requires 1-1C5G, 1-1E4G, 1-1H5G tubes, 1-1 1/2 V. "A", 2-45 V. "Bs", 1-7 1/2 V. "C" battery. Less tubes and batteries. Shpg. wt., 3 lbs. **\$4.41**
NET.....

4-TUBE AC-DC TRF KIT



An easily-built metal tube receiver with surprising sensitivity and tone quality. For broadcast reception, 530 to 1600 K.C. Uses a 6K7 R.F. amplifier, 6J7 power detector, 25A6 pentode output, and 25Z6 rectifier. For 110 volts AC or DC. Kit includes all necessary parts, instructions, and diagrams. Shpg. wt., 9 lbs. **\$9.55**
B10640. Complete Kit, less \$9.55
B10641. Punched and drilled chassis, 7"x4 1/2"x2". NET.....\$1.32
B9576. 5" PM Speaker. NET.....\$1.38

WIRELESS PHONO OSCILLATOR



A self-powered new type wireless phono oscillator designed for use with any radio in conjunction with magnetic or crystal phono pickup. Does not require connection to radio receiver. Uses 6F7 oscillator and 25Z5 rectifier. Supplied complete with

drilled chassis and instructions (less tubes). For 110 Volts AC or DC operation. Shpg. wt., 5 lbs. Easily assembled. **\$6.76**
B10630. NET.....

NEW INSTRUCTION MANUAL

A valuable book full of information for the Serviceman, Amateur, Experimenter, Set Builder, etc. Includes technical data on Radio and Television, wiring instructions, easy-to-follow pictorial and schematic diagrams, for 33 Meissner kits. 168 pages. **\$48c**
B9559. NET.....

ACCESSORIES FOR ABOVE

B9563. 70-200 Meter Plug-in Coil. EACH
B9564. 35-70 Meter Plug-in Coil. 35c
B9565. 17-35 Meter Plug-in Coil. 35c
B9566. 545-1500 Meter B. C. Band Coil. 88c
B710. Raytheon 1E4G Tube. NET.....67c
B705. Raytheon 1C5G Tube. NET.....67c
B719. Raytheon 1H5G Tube. NET.....54c
B8925. 1 1/2 volt "C" battery. NET.....21c
B8920. 45 volt "B" battery. NET.....94c
B8917. 7 1/2 volt "C" battery. NET.....48c
B2813. Single 1,000 ohm headphone with headband. NET.....66c

ADD-ON KITS

Permits increasing size of 1 and 2 tube kits. B9586 Kit will provide speaker reception.
B9585. Converts 1 tube kit to 2 tube kit. Less 1-1C5G tube, 1-7 1/2 V. "C", and 1-45V "B" battery. See above. NET. 59c
B9586. Converts 2 tube kit to 3 tube kit. Less 1-1H5G tube. See above. \$1.09
NET.....

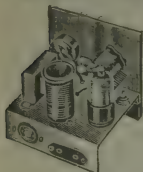
WE CAN SUPPLY all the Meissner Kits and Adapters. Write us for B15229 free Meissner catalog. Complete Kits costing more than \$20 are available on the Meissner convenient Time Payment Plan. Ask for details.

SEE PAGE 167 FOR MEISSNER FREQUENCY-MODULATION SETS

"POPULAR MECHANICS"

Build-Your-Own KITS

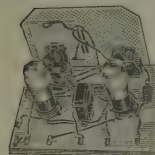
"MIGHTY MIDGET" ONE TUBE FOR ALL WAVES



R280. A distance-getting one tube short-wave set with plenty of volume. Uses the new greatly improved battery type 1D8GT multi-unit tube for maximum efficiency. Four plug-in coils cover from 9.5 to 217 meters. A variable resistor is used for regeneration. "A" and "C" batteries are the flashlight type. 45 volt battery is used for "B". Wt., 4 lbs.

B9567. Complete kit of parts less only tubes and batteries. **\$4.50**
B9569. Tube and battery kit. **\$2.25**
B9567. Short-Wave coil kit. **85c**
B9566. Broadcast coil kit. **65c**

TWO-BAND FLASHLIGHT KIT



R275. An efficient battery-operated receiver covering the standard broadcast, police, 160 and 80 meter ham bands. Uses a 3-circuit tuner tapped for short-wave reception. Type 49 tube regenerative detector is followed by another 49 tube for audio amplification. Uses 8 flashlight cells for "B" and 1-1½ V. dry cell for "A". Supplied complete less tubes, batteries and headpiece. Wt. 5 lbs.

B9550. NET. **\$4.70**
B9556. Tube and battery kit. **\$1.39**

CRYSTAL HEARING-AID KIT



R284. Popular Mechanics most unique project. A light weight, high-gain, wearable type amplifier for the hard-of-hearing. Employs latest type Hytron Bantam Jr. tubes, 2-HY115, 1-HY125, in resistance coupled circuit. Complete amplifier and microphone fits in aluminum case only 6¼" x 1¼" x 3¼" and is worn on neck cord. When finished, will work like professional unit at ¼ cost of factory-made amplifier. 250 hours of continuous service from battery. Use with single light weight earphone below. Complete kit with all parts including microphone, drilled and formed aluminum case and sub-chassis. (Less battery, tubes and earphone.) Shpg. wt., 3 lbs.

B9594. NET. **\$6.85**
B9595. Comp. "A" and "B" battery. **\$1.85**
B9573. Single Trim headpiece. **3.65**
B9584. Tube kit for above. **7.35**

WIRELESS PHONO-AMPLIFIERS AND ATTACHMENTS

3 TUBE HIGH-GAIN PHONO OSCILLATOR



For playing phonograph records or microphone pickup may be used in conjunction with a record player and any radio receiver. The high-gain circuit permits excellent results to be obtained with an inexpensive microphone. Has separate high impedance and microphone input jacks with individual volume controls for mixing voice and music. Tubes not supplied. For 115 V. AC or DC operation. Shpg. wt., 5 lbs.

B9553. NET. **\$5.25**
B9554. Tube kit for above. **\$1.64**
B9172. Quam microphone. **1.76**

POPULAR MECHANICS KITS

Here is an extensive selection of complete kits of matched parts for building the most popular circuits described in recent issues of *Popular Mechanics Magazine*. We can also supply parts lists for all *Popular Mechanics* "R" number kits as soon as they are published. For best results build these circuits with ALLIED approved parts.

CONSTRUCTION BLUEPRINTS

The leading new *Popular Mechanics* sets are clearly described on 17" x22" blueprints. Include schematic and pictorial diagrams, essential construction data, and matched lists of parts. Simplify building your own problems by using these blueprints.



B1910. R245. Two Tube Portable.
B1908. R248. 5 Meter M.O.P.A. X-mitter.
B1905. R252. One Tube DX S.W. Set.
B1901. R257. 6 Volt Electric Fence Control.
B1917. R259. All-Purpose Power Supply.
B1919. R263. Photo-Cell Relay.
B1928. R266. Beginners' 3 Unit Set.
B1942. R269. 4 Tube Bantam Set.
B1943. R270. Phantom Record Player.
B1944. R271. Beginner's 1 Tube A.C.-D.C.
B1936. R272. Portable Sound System.
B1937. R273. 4 Tube Progressive Kit.
B1938. R274. Zero Beat Treasure Finder.
B1939. R275. 2 Band Flashlight Set.
B1929. R283. High Fidelity 5 Tube Set.
B1900. R277. Loop Battery Portable.
B1903. R278. 6 Tube, 3 Band Super.
B1909. R279. Portable Battery Set.
B1913. R280. Mighty Midget One Tube.
B1914. R281. Capacity Operated Relay.
B1925. R282. Low-Cost Pack Set.
B1941. R284. Wearable Hearing Aid.

NET EACH. **25c**

"LITTLE GIANT" FOUR TUBE

AC-DC KIT

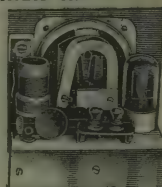
R276. The most popular 4-tube AC-DC receiver ever described in *Popular Mechanics*. Features 4 station push-button tuning. Does not interfere with manual tuning. Uses 1-12K7GT, 1-12J7GT, 1-50L6GT and 1-45Z5GT. Covers standard broadcast band. The PM type speaker produces excellent tone and volume. With all parts except cabinet and tubes. Easy to build. For 115 V. AC or DC. Wt., 9 lbs.



B9551. NET. **\$7.95**

BEGINNERS' ONE TUBE AC-DC LOUDSPEAKER KIT

R271. An inexpensive, experimental one tube receiver using a crystal detector. Operates directly from 110 volt A.C. or D.C. line. Single 25A7GT bantam type tube serves as dual purpose audio amplifier and rectifier. Fixed crystal needs no adjustment; tuning accomplished by variable trimmer type condenser. Resistor line cord reduces voltage for filament supply. Magnetic type 3" speaker gives ample volume on local stations. Less tube, Wt. 5 lbs.



B9842. NET. **\$4.35**
B928. Raytheon 25A7GT tube. **86c**

ZERO BEAT TREASURE FINDER

R274. A "Chilson" type metal locating device with many outstanding features. Uses the well-known beat-frequency circuit. Has none of the disadvantages caused by extraneous capacity effects. Ideal for locating buried or hidden objects and tracing out pipe lines. It employs a single exploring coil unit connected to a metal box containing the battery-operated instrument. Uses 1-1E7G and 2-30 low-draw tubes which are operated by 1-3-volt "A" (Burgess 2F2H) and 1-45 volt "B" (Burgess Z30N) batteries. The exploring coil is supplied complete with handle, cord and plugs. Easily constructed from large pictorial and schematic blueprint. Kit includes: foundation kit below, condensers, resistors, a metal carrying case, drilled base, etc. Less tubes, phones and batteries. Wt., 15 lbs.

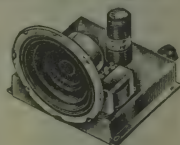


B9552. NET. **\$24.75**
B9555. FOUNDATION KIT. Consists of R.F. coupler unit, exploring coil with handle, cord and plugs, A.F. choke, etc. Wt., 11 lbs. NET. **\$15.75**

PHONO AMPLIFIER KITS

1 TUBE PHONO AND CODE PRACTICE AMPLIFIER

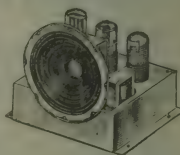
A new type AC-DC audio amplifier with universal application. May be used as a phono-amplifier with excellent reproduction of music when used with any high impedance crystal or magnetic pick-up and motor turntable unit. Will give loudspeaker operation when added to any one of two tube receiver. Can also be used as a loudspeaker type code practice oscillator. 3" PM speaker. Kit includes punched and drilled chassis base and all necessary parts. (Less tube.) For 115 V. AC or DC. Shpg. wt., 8 lbs.



B9570. NET. **\$4.85**
B907. Raytheon 70L7GT tube. **\$1.13**

3 TUBE DELUXE PHONOGRAPH AMPLIFIER KIT

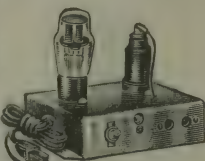
The latest development in phonograph amplifiers. The 3 tube high-gain circuit is designed for either a crystal or a magnetic type pick-up. The type PM speaker with over-size magnet easily handles the 2-watt output. Inverse feedback is employed to reduce distortion and increase fidelity. Uses 1-12J5GT, 1-50L6GT, 1-35Z5GT tubes. (Not supplied.) Kit includes drilled chassis, built-in volume control and all necessary parts. For 115 V. AC or DC operation. Wt., 8 lbs.



B9572. NET. **\$4.25**
B9573. Tube kit for above. NET. **\$1.53**

KNIGHT WIRELESS PHONO-OSCILLATOR

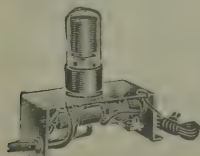
This inexpensive, easy-to-build kit will permit you to play phonograph music and to make your own broadcasts through any radio set without direct connection to the set. Operates up to 25 feet from radio. Uses type 6A8 tube as osc.-mod. and 25Z5 tube as rectifier. Drilled chassis, 5¼" x 4" x 1½". Less tubes. For 115 V. AC or DC. 4 lbs.



B9165. NET PRICE. **\$2.95**
B9166. Tube Kit. NET. **90c**

ECONOMY AC-DC WIRELESS PHONO-OSCILLATOR KIT

This phono oscillator kit has been designed expressly for the home constructor. A unique type circuit permits excellent results with a minimum number of parts. Either a crystal or a high impedance magnetic pickup may be used in conjunction with a record player and any radio receiver. Tunes from 900 to 340 Kc. No connections necessary between unit and radio set. Uses a type 70L7GT dual purpose tube. For 115 V. AC or DC. Wt., 2 lbs.



B9315. Complete kit of parts less tube. NET. **\$1.85**
B907. 70L7GT tube for above. NET. **\$1.13**

FREQUENCY MODULATION SETS-TUNERS-ACCESSORIES

MEISSNER FREQUENCY MODULATION RECEIVERS

A WORD ABOUT FM

Frequency Modulation is the latest development in radio. It permits noise-free reception and at the same time brings you the full dynamic range of the original program with a quality of reproduction that is startling. Naturally, better sets at higher prices are required. At present, the number of FM stations is rather limited. When FM comes to your locality, most **Knight** sets listed in this catalog can be used with the adapters shown on this page. As FM progresses, ALLIED will continue to make available all the latest developments. Buy **Knight** sets with confidence, knowing that you will be able to receive FM programs when they are available.

FM CHASSIS

A completely wired and aligned FM chassis as used in the Console and Table Model receivers described at right. Tuning range is 42 to 50 MC. Has slide rule dial. A VR150 voltage regulator tube, ceramic sockets, coil forms, etc., minimize frequency drift. 3 stage I.F. amplifier and limiter. A dual resonance indicator facilitates tuning. Television type RF tube is used for maximum gain. The detector transformer is air-tuned to insure stability. Tubes: 1—18S2 RF, 1—6SA7 converter, 2—6SK7 IF's, 1—18S2 limiter, 1—6H6 detector, 1—6SC7 tuning eye amplifier, 1—6AD6G tuning eye, 1—6CS first audio, 1—6L6G power output, 1—5U4G rectifier and 1—VR150 voltage regulator. Delivers 6 watts of undistorted audio. Chassis size is 10"x12"x3". For 115 V., 60 cycle AC. Wt., 16 lbs. Less tubes.

B16297. \$40.08

B15930. 8" Utah High Fidelity Speaker. With output transformer. NET. \$6.91

B15931. Tube kit. \$9.80

During 1939 a startling new discovery was announced to the technical world by Major E. H. Armstrong—an entirely new conception of radio transmission and reception which makes possible the perfect reproduction of programs, unaffected by interference or static. Ordinary receivers will not respond to FM broadcasts and vice-versa. New circuit design is the reason for the system's freedom from noise and static. New stations are being built in many large centers, and many more are being planned. In view of the interest shown in this new art, Meissner has made available two complete FM receivers, one in a beautiful console model and the other in a table model cabinet. The same chassis, speaker, tubes, etc., are used in both models. These circuits incorporate the original principles of FM as developed by Major Armstrong. A high-gain RF stage provides efficient signal amplification. A mixer-oscillator feeds the 4.3 MC signal into a 3-stage IF amplifier and limiter. A diode detector provides distortion-free audio into the 2-stage high-fidelity audio amplifier. Voltage regulation, AVC, ceramic insulation, assure maximum stability. Frequency range, 42 to 50 MC; sensitivity is 10 microvolts; output is 6 watts. Uses 2—6SK7, 2—18S2, 1—6SA7, 1—6H6, 1—6SC7, 1—6AD6G, 1—6CS, 1—6L6G, 1—5U4G and 1—VR150. With high-fidelity special speaker. For 115 volts, 60 cycles.

B16295. Table Model. FM receiver housed in a 2-tone walnut cabinet. 12 1/4" high, 22 3/4" wide and 11" deep. Complete with tubes and speaker. Shpg. wt., 30 lbs. NET. \$58.31

B16296. Console Model. FM receiver housed in a 2-tone walnut cabinet. 41" high, 30 1/4" wide and 15 3/4" deep. Massive, well proportioned. Complete. Shpg. wt., 105 lbs. \$77.91

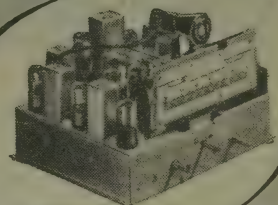
FM PARTS FOR BUILDERS

B15932. No. 01350 Discriminator IF Coil. Double air tuned, ceramic base, bus-bar leads, rigidly built, shielded coils. Will hold critical setting indefinitely. Set at 4.3 MC. NET. \$3.53

B15933. No. 01348 IF Coil. Standard mica tuned coil in shield can. Peaked at 4.3 MC. NET. \$1.03

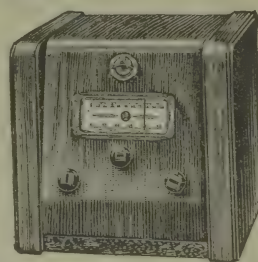
B15934. No. 01340 RF Tuning Unit. 3 gang variable condenser and coil unit. Already wired with resistors, condensers and coils. Ready to be connected into circuit for building FM tuner. NET. \$12.64

B4190. Slide Rule dial calibrated from 42 to 50 MC, for any FM tuner. (Listed on dial page 176.) \$2.59



BROWNING FREQUENCY MODULATION SETS AND ACCESSORIES

Here is the latest development in radio reception—Major Armstrong's system of wide-band Frequency Modulation. This method of transmission permits noise-free and static-free reception heretofore thought impossible to achieve. At the same time it allows the full dynamic and frequency range of the original program to be transmitted without distortion. Browning offers the finest in receiving equipment for enjoyment of the new type of broadcast. Browning Laboratories have cooperated closely with Major Armstrong during the development of wide-band Frequency Modulation. The Browning FM tuners and accessories listed on this page have been designed electrically and mechanically to give the very best possible performance. Layout of the component parts on the chassis permits very short leads which minimizes oscillation and feedback. The BL43A Tuner and Transceptor are designed to work in conjunction with the high-quality audio and speaker system of any radio receiver. A complete FM receiver can be constructed using the accessories listed below. Send for literature **B10686**, free on request.



BL43A TUNER

A complete FM adapter for use with the audio amplifier and speaker listed at right or any other high-fidelity audio system. Consists of a HF tuner covering from 40 to 50 MC. Uses a 6SK7 as an RF amplifier and a 6K8 mixer oscillator. A tuned antenna circuit provides maximum signal input to the RF stage. Output of the mixer oscillator is fed to the broad-band 2-stage IF amplifier which employs 1—18S2 and 1—6SK7. This channel is pre-aligned at 3 MC. The signal then passes through the limiter, a 6SJ7, and on to the 6H6 diode detector where it is rectified and appears across the built-in volume control. The power supply uses a type 80 tube. A PM or DC electro-dynamic speaker with a 1000 to 1200 ohm field may be used. For a complete FM receiver use B10684 audio amplifier at right. The BL43A is completely wired and factory aligned, less only the tubes and speaker. For 115 V., 60 cycles. Shpg. wt., 20 lbs. **\$44.85**

B10687. NET. \$44.85

B10682. BL-3000A. Consists of a portion of the RF amplifier and mixer, 2 IF stages (aligned), limiter and detector. Mounted on 10 1/2"x9 1/2"x2 1/2" chassis. Holes punched for RF tuner, power supply and audio amplifier listed at right. Uses 1—18S2, 1—6SK7, 1—6SJ7, 1—6H6. Less tubes. \$24.90

Shpg. wt., 17 lbs. NET. \$24.90

FM PARTS FOR BUILDERS

The Browning IF amplifier, limiter and detection system requires 3 BL-3M and 1 BL-3D transformers. Will pass 200 KC band width.

B10684. Audio Amplifier Kit. A high-fidelity push-pull audio amplifier with phase inversion for use with any FM tuner. Uses a 6SC7 phase inverter and 2—6V6G power tubes. Consists of 7 resistors, 5 condensers and 3 sockets. Less tubes. Wt., 1 lb. NET. \$2.05

B10666. JENSEN PM8CT Speaker. A newly developed high fidelity unit for FM and Television receivers. With output transformer for PP 6V6's. Wt., 8 lbs. NET. \$6.32

B10680. Punched Chassis Base. Completely punched and formed chassis base for the RF and IF tuners, audio amplifier and power supply. Wt., 5 lbs. NET. \$2.70

B10679. Power Supply. Complete kit of parts less type 80 rectifier tube. \$4.95

B10660. BL-3M. 3 MC broad-band interstage IF transformer only. Wt., 8 oz. \$1.20

B10661. BL-3D. 3 MC air-tuned detector transformer only. Wt., 8 oz. NET. \$3.75

B10662. BL-40V. 4" nickel silvered vernier dial. Sun-ray finish. Wt., 8 oz. \$2.10

B10665. BL-6D. 6" calibrated Slide Rule type vernier dial. Wt., 2 lbs. NET. \$3.15

BROWNING TRANSCPTOR

Browning Laboratories now offer for those who prefer a receiver with a professional appearance the Browning "Transceptor." The tuning unit is the same as the BL43A tuner described at left. It uses a 6" Slide Rule type vernier drive dial with scales calibrated in frequency and also from 0 to 100. The "Transceptor" can be used in conjunction with the audio system and speaker of your present receiver, or a complete FM receiver can be constructed using the audio amplifier and speaker listed at left. Tuner is housed in a beautiful walnut veneer cabinet, 18" wide, 11" deep, and 24" high. With power supply. For 115 V., 60 cycle AC. 20 lbs. **\$55.05**

B10663. Complete less tubes. NET. \$55.05

B10664. Tube kit for above and BL43A Tuner. NET. \$4.60

NEW FM ANTENNA

A FM antenna designed to cover a range of 40 to 90 MC. Consists of 2 large diameter adjustable units, each 60" long, mounted on a bakelite base with ultra low-loss insulators. Can be adjusted to the effective frequency of any station within above range. Employs "Q" method of coupling between the transmission line and the antenna. With 60 feet of special transmission cable. Wt., 6 lbs. **\$4.41**

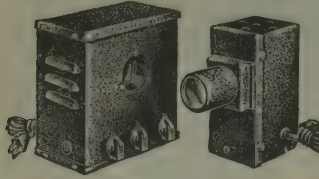
B5939. NET. \$4.41

PHOTO-ELECTRIC CELL EQUIPMENT

WORNER "FOTO-ELECTRIC" PRODUCTS

We can supply Worner "FOTO-ELECTRIC" units for industrial uses such as automatic sorting, grading, or counting; for machinery protection or control; for heat, light or smoke control, etc. Send us details of your requirements for complete information and prices on equipment designed to meet your needs. Worner "FOTO-ELECTRIC" products are the finest units available.

BURGLAR ALARM SYSTEM



Provides long life, easy installation, reliability, and economy of operation. Indispensable in the protection of homes, offices, stores, shops, etc. Consists of 2 units: an invisible black-light source and a combination photo-electric cell, relay, amplifier, and alarm bell. In operation, light beam is focused on the photo-electric cell. Interruption of beam or of the 115 volt circuit will cause alarm to ring. Continues to ring until re-set by means of the keyless combination locking device. Light unit size, 7x4x3 1/4". Relay unit, 6 1/2 x 7 x 4". Range is 75 feet. For 115 V. 60 cycles. Shpg. wt., 9 lbs.

B1220. Model 301.....**\$27.34**

Model 303. Same as above but eliminates false alarms due to power failure; automatically self-restoring after power is renewed. For 110 volts, 60 cycles. Shpg. wt., 10 lbs.

B1209......**\$35.28**

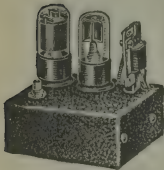
Model 501. Affords greater protection. Will operate from black light beam over a distance of 126 lineal feet. Shpg. wt., 11 lbs.

B1210. Model 501......**\$41.16**

EXTERNAL ALARM SYSTEM

B1221. Rings in conjunction with main alarm. Continues to ring even if cut off from main alarm. With batteries and 25 feet of cable. Shpg. wt., 9 lbs.**\$7.64**

KNIGHT "AC-DC" PHOTO CELL AND RELAY KIT



Highly-sensitive, lowest-priced photo-cell kits. May be used for burglar alarms, starting and stopping motors, controlling lights and bells and numerous other applications. The increase or decrease of light intensity controls units. Supplied with a sensitive Cetron photo-cell and 50L6GT amplifier tube. Kit includes all parts, drilled chassis, photo-cell, SPDT relay, tube, diagram and instructions. Easy to assemble. Chassis base measures 5"x5"x2 1/4". For 115 V., AC or DC. Shpg. wt., 1 1/2 lbs.

B9597. NET......**\$5.90**

AC-DC LIGHT SOURCE

An efficient light source kit for photo-electric cell work. The 32 CP bulb has life of 1000 hours. Black case, 6 1/2 x 4 1/2 x 2 1/4". For 115 V. AC or DC. Shpg. wt., 2 lbs.**\$3.82**

B9877. NET......**\$3.82**

ALLIED PHOTO CELL AND INDUSTRIAL RELAYS

TYPE PC RELAYS

Especially designed for P. E. work. Silver contacts carry 5 amps. of non-reactive A.C. at 115 volts. All relays are SPDT. Adjustable for pull-in and drop-out regulation, and for contact spacing. Yoke, armature and pole piece are made of Armco electrical iron, cadmium-plated. Coils lacquer-wound and fully impregnated. Size, 2 1/2 x 1 1/2 x 1 1/4". Wt., 1 lb.

B4090. 2,500 ohm coil. Designed for plate circuit of a tube.**\$1.08**

B4091. With 6 volt A.C. coil.....**\$1.22**

B4092. With 110 volt A.C. coil.....**1.31**

B4093. With 6 volt D.C. coil.....**\$2.92c**

THE NEW "ANNOUNCER"

Specially designed for announcing purposes. Range 15 feet. Self-contained unit has photo-electric cell, light source, amplifier, and relay. Has V. A.C. output. May be mounted directly on door. Supplied with mirror and a chime. Crackle-finished gray case measures 7"x6"x2 1/2". For 115 V. 60 cycles. Shpg. wt., 5 lbs.

B1227. NET......**\$11.47**

PHOTO CELL AND RELAY

Contains a sensitive photo cell and quick-acting relay. Highly dependable; ideal for smoke and fire detection, counting, grading, for controlling machinery, lights, and motors, opening doors, etc. We will be glad to answer all installation, or application inquiries. Size of unit is 6 1/2 x 7 x 4". A suitable light source is listed below. For 115 V. 60 cycles. Shpg. wt., 5 1/2 lbs.

B1230. NET......**\$15.58**

PHOTO CELL LIGHT SOURCE

Designed for operation with Photo Cell and Relay listed above but may be used with other types of photo electric cell units and relays. Uses long life bulb with very low wattage consumption. Special lens permits throwing a long, concentrated beam of light. Size of case is 7 x 4 x 3 1/4". For 115 V., 60 cycles. With bulb and line cord. Shpg. wt., 4 lbs.

B1231. NET......**\$6.17**

PHOTO CELL ACCESSORIES

B1222. Mirror. By using mirrors, light beam can be reflected back and forth across room, and thus provide a high degree of protection. If beam is broken at any point, alarm will sound. Mirror is scientifically ground, and adjustable for maximum concentration. With mounting bracket. Size, 8"x4"x2 1/4". Shpg. wt., 3 1/2 lbs.**\$2.65**

B1225. 6" Focal Lens......**29c**

B1226. Photo Cell......**\$1.95**

B1223. Infra Red Filter......**59c**

B9876. DOOR CHIME. Dual tone. For use with PE equipment in homes or offices. 5 V. DC, 8 V. AC. Wt., 3 lbs.**\$1.97c**

ELECTRIC COUNTER. Counts 0 to 99999. Chrome case with mounting lugs.

B1211. For 110 V., 60 cycles AC.**\$5.88**

B1212. For 6 Volt DC.**EACH**

EBY P.E. EQUIPMENT BEGINNERS UNIT

Designed primarily for educational and experimental purposes. This completely assembled and wired unit is ideal for the beginner in the Photo-electric field. May be operated with a beam of light from flashlight or electric bulb. Will operate buzzers, bells, lights, counters, burglar alarm, etc. Complete with Eby P.E. cell, amplifier tube and instructions. For 110 volt, 60 cycles. Wt., 3 lbs.**\$3.92**

B4013. NET......**\$3.92**

EXPERIMENTAL PHOTO CELL KIT

Contains parts for building various Electric Eye circuits. Includes Eby photo-cell, sensitive relay, punched chassis base, adjustable voltage divider, RCA tube, sockets, resistors, condensers, etc. Also includes Eby Handbook. For 115 V., 60 cycles. Shpg. wt., 4 lbs.

B4049. NET......**\$7.94**

PHOTO CELL

Excellent for use in all types of photo-electric circuits. 1 1/4" diam., 3/4" high. Fits 4 prong socket. 1/2 lb. Shock and moisture proof.

B4032. NET......**\$2.06**

SENSITIVE RELAYS

Designed for direct, or for full or half-wave rectified current circuits, where the operating power is small. Ideal for photo-cell equipment, vacuum tube amplifier circuits, etc., due to the low power necessary to make contact. Sterling silver contacts carry 2.5 Amps. at 115 V. A.C. or 1.5 Amps. at 115 V. D.C. Wt., 1 lb.

B4045. 1000 ohm coil......**EACH**

B4046. 2500 ohm coil......**\$3.82**

B4047. 5000 ohm coil......**\$3.82**

B4048. 10000 ohm coil......**\$3.82**

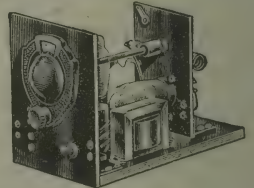
ELECTRIC EYE HANDBOOK



A 28 page book which contains a wealth of information. Describes in detail the underlying principles of photo-cells. Theory and practice are fully covered and illustrated. Indispensable for the student and the experimenter.

B4033. NET......**29c**

2 1/2 METER TRANSCEIVER



An inexpensive Transceiver Kit for the Amateur Experimenter who wants to investigate the 12-116 MC band. The circuit uses a type 76 tube acting as a super-regenerative detector for receiving and as an oscillator for transmitting. The type 41 tube alternates as an audio amplifier and as a modulator. Kit contains tubes and all necessary parts including hook-up wire and hardware. Detailed instructions for assembly are provided. May be used with the power supply listed below or any 6 v. vibrator pack. Wt., 6 lbs.

B9520. NET......**\$5.45**

B9522. Power Supply Kit. A well-filtered unit providing "A" and "B" voltages for above. With 80 tube. For 115 V. A.C. Wt., 9 lbs.**\$2.85**

B9645. Universal Handset. 2000 ohm phone and single button "mike."**NET \$5.88**

ATTACHMENTS

HEADPHONES

Accessories

AMERICAN BELL

INSTITUTIONAL HEADPHONES



Especially designed for schools, prisons, hospitals and other institutions where fool-proof, light-weight headphones are essential. Also ideal for use with crystal sets, battery radios and low-cost hearing aids. Every feature required for institutional use has been incorporated:

aluminum cases and caps which will not break when dropped; inside terminal connections, to prevent shocks and tampering; 4 1/2' braided cord. These phones have large magnets and two coils per phone, making them ultra sensitive. Shpg. wt., 2 lbs.

B2900. 2000 ohms. NET..... \$1.10
B2901. 3000 ohms. NET..... \$1.25

SINGLE PHONES

Identical to above, but set includes only one phone. Supplied complete with headband and 4 1/2' braided cable. Terminals are inside the aluminum case, eliminating the danger of shocks. Shpg. wt., 1 1/2 lbs.

B2902. 1000 ohms. NET..... 75c
B2903. 1500 ohms. NET..... 85c

NOTE: For special requirements we can supply phones with bakelite caps, with inside or outside terminals, with stainless steel, braided or leather headbands, and with rubber or cotton-covered cords. Give your exact requirements for a prompt quotation.

CANNONBALL MASTER HEADSETS

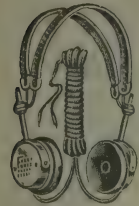


An improved high-resistance headset that faithfully reproduces every type of radio program. Aluminum-cased with bakelite caps and shock-preventing inside terminals. Two sturdy magnets of 1/4" chrome steel per phone. The flexible steel headband is easily adjusted by means of handy

spring pressure clips. Although low in price, are ideal for crystal sets, battery operated radios, and for multiple headphone systems such as are used in hospitals, schools, prisons, sanatoriums, etc. Also widely used for hard-of-hearing amplifiers. Recommended for all uses requiring a well-designed headset. Shpg. wt., 2 lbs.

B2804. 3000 ohms. NET..... \$1.85
B2805. 5000 ohms. NET..... \$2.35

FROST PHONES



Many superior features are incorporated in Frost phones which add greatly to their efficiency and quality of reproduction. They are light in weight and comfortable to wear; easily adjusted to fit the head. Headband is double type, with woven fabric covers. Units have aluminum shells and hard rubber caps. Cord terminals are inside of case, to prevent

accidental shock. For use with crystal sets, battery radios, hard-of-hearing amplifiers, etc. They have also been used by discriminating amateurs for years. Shpg. wt., 2 lbs.

B3251. 3000 OHMS. \$1.65
B3250. 2000 OHMS. NET..... \$1.48

HEADPHONE CORD

B3254. 5 foot double cords. Spade lugs on phone ends; phone tips on other. NET... 33c

HEADPHONE PLUG

B5515. Takes 2 phones. Has extra wide screws, holds tips tight. NET..... 17c

ACME FEATHERWEIGHT HEADPHONES



Sensitive, durable, and really practical 'phones for every headset use. "Light as a feather." Each unit weighs less than 1 1/2 ounces; total weight is only 5 ounces. Recommended especially for Amateurs, SWL's, hard-of-hearing and multiple phone installations. Case is of non-breakable aluminum with light-tension flexible headband. Cord is 4 1/2 ft. braided-covered. Shpg. wt., 1 lb.

B5251. 2000 ohms. NET..... 95c
B5250. 4000 ohms. NET..... \$1.20

ACME SINGLE HEADSETS

A lightweight single unit headphone, with headband as described above. Shpg. wt., 12 oz.

B5279. 1000 ohms. 59c
B5278. 2000 ohms. NET..... 70c

DIAPHRAGMS FOR ABOVE

B5252. Replacement diaphragms for any of the above Acme phones. NET EACH, 5c

BRUSH CRYSTAL HEADPHONES



High sensitivity headphones of new piezo-electric design. For Amateurs, Short Wave Fans, monitoring, measurement work, etc. Have unusually high impedance, causing minimum disturbance in critical electrical circuits. Frequency response is from 100 to 10,000 cycles. Have cone-type diaphragm. When used in circuits carrying direct current a small blocking condenser is necessary. Weight, including headband and 5 ft. cord, only six ounces. Shpg. wt., 2 lbs.

B1200. Shpg. wt., 2 lbs. \$5.29

BRUSH TYPE BJ PHONES

Finest quality high impedance communication type crystal phones. Hermetically sealed cartridge in soft molded rubber jacket. With headband and 3' cord. Wt., 2 lbs.

B1215. NET..... \$7.06

SINGLE UNIT TYPE A PHONES

B1201. Single headphone with metal headband. Shpg. wt., 2 lbs. \$2.94

B1202. Single headphone with lorgnette handle. Shpg. wt., 2 lbs. NET..... \$3.82

BRANDES SUPERIOR PHONES



A high quality, ruggedly-built headset which has been a favorite for years. Outside terminal type, with aluminum cases and bakelite caps. Diaphragm diameter is 2 1/4". Has double coils, two in each receiver; adjustable stainless steel split headband; and 4 1/2' foot cotton-covered cord. Magnets are made of chrome magnet steel, 1/4" square. Resistance is 2400 ohms per pair. Ideal for crystal sets, battery operated receivers, amateur work, etc. Wt., 2 lbs.

B2908. NET..... \$1.79

BRANDES "ADMIRAL" PHONES

Similar to the phones above, but with terminals inside case. Have aluminum cases, bakelite caps, double coils, chrome steel magnets, etc. Sturdy and lightweight—excellent for all-around use. Shpg. wt., 2 lbs.

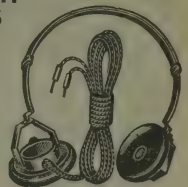
B2909. 2000 Ohms. NET..... \$1.89
B2910. 3000 Ohms. NET..... \$2.06
B2911. 5000 Ohms. NET..... 2.49

CAPS AND DIAPHRAGMS

B2801. Caps. EACH..... 18c
B2802. Diaphragms. EACH..... 5c

TRIMM HEADPHONES

FEATHERWEIGHT TYPE PHONES



Very compact headphones, weighing only 4 oz. They have forged magnets of 36% cobalt steel, bakelite shells and caps, and adjustable spring-steel headband. Diameter only 2 1/4". These phones are especially designed for Amateurs, Aircraft, Hard-of-Hearing, etc. 24,000 ohm type used for extremely weak signals, for tuning in short wave stations, commercial and amateur communications, etc. Shpg. wt., 2 lbs.

B5270. 4000 ohm Standard. \$5.88
B5271. 24,000 ohm Special. NET EACH.....

LORGNETTE TYPE SINGLE UNIT

Single unit featherweight phone with an adjustable 14-inch telescoping metal handle. Bakelite encased unit is adjustable to any angle. Terminals are inside of case to eliminate shocks. Handle finished in nickel, aluminite, and jet black plastic. For churches, hard-of-hearing, etc. Very sensitive. 2000 ohms. Wt., 3 lbs.

B5275. NET..... \$3.97

HEADBAND TYPE

Single unit phone of flat disc type similar to the model listed above. Ideal for theaters, churches, etc. With 6-ft. cord. **\$3.67**

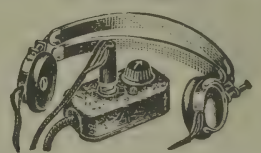
B5273. NET.....

PROFESSIONAL TYPE

A high quality standard type headphone, suitable for battery, crystal, and shortwave sets, as well as for multiple installations. Used by Amateurs, SWL's, etc. Has bakelite case and cap. With cords. Cord terminals are inside case. Shpg. wt., 2 lbs.

B5276. 3000 Ohms. \$2.47
B5277. 4000 Ohms. NET EACH.....

QUIET RADIO-HEADPHONE ATTACHMENT



Permits operating headphones from any radio or amplifier. Adapter connects to speaker coil. Permits operation of either speaker or headphones, or both at the same time. Headphones are very compact and light in weight, with forged magnets. Bakelite shell and cap, with terminals inside shell to prevent shocks. Adapter has built-in switch and jack for a phone plug. Ideal for short-wave listeners, hard-of-hearing, etc. Shpg. wt., 4 lbs.

B5264. Type 643. NET..... \$3.50
B5267. Type 647. Similar to above but headphones are less sensitive. \$2.59

HEARING-AID CONTROL BOX

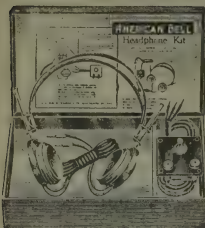
For multiple hearing-aid installations in schools, theatres, churches, etc. Also used for radio systems in hospitals, etc. Permits adjustment of volume to individual hard-of-hearing needs. Resistance, 10,000 ohms. Small and compact, only 1x2x3". (Use Knight High Gain Amplifiers for group-hearing use. See P.A. Section beginning on page 73.) Shpg. wt., 1 lb.

B5280. Brown Crystal Finish. \$1.91
B5281. Glossy Ivory Finish. NET EACH.....



BEGINNERS' CRYSTAL SETS HEADPHONES KITS ACCESSORIES

AMERICAN BELL SILENT PHONE KIT



A complete, convenient kit that permits excellent headphone reception on any radio. For tuning distant weak stations; for the hard-of-hearing; and for listening in on radio reception when speaker reception would disturb others.

Three position switch permits three methods of operation: speaker alone; speaker and headphones together; or headphones alone. Radiomen should sell one of these attachments on every service call. Attractively priced for quick sales.

EASY TO INSTALL

Anyone can easily and quickly install the attachment by following the simple instructions which are supplied. A soldering iron is the only tool required. Leads go to terminals of speaker's voice coil. Headphone volume is controlled by the receiver's volume control. Supplied complete with everything required. Headphones are special low-impedance type (11 ohms), assuring finest tone. Light weight headband, 6-ft. cord, and adapter unit with switch. Shpg. wt., 5 lbs.

B2912. With Headphones. NET \$1.95

B2913. Adapter Attachment Only. For use with any good headphones. Net offers best results with low impedance (11 ohm) phones as described above. **NET..... 85c**



ENCLOSED TYPE PHONE ADAPTER

Compact, fully enclosed adapter for switching from speaker to headphones or for simultaneous use of both. With hook for easy mounting on or near radio. **B2913** above of set only; **B2907** may be placed near set where most convenient. Shpg. wt., 1 lb.

B2907. NET..... 98c

BRUSH "HUSHATONE"



New, efficient pillow-type speaker. May be placed under pillow on bed, couch, or chair. Enables user to enjoy radio programs in comfort without disturbing others in the room. An invaluable aid and comfort in hospitals, sanitariums, etc. Housed in sponge rubber; may be safely dipped into liquid for sterilization. Exclusive Brush principle assures excellent reproduction. Volume is regulated by volume control on radio set. Easily and quickly attached to any receiver. Measures only $4\frac{1}{4} \times 5\frac{1}{4} \times 1\frac{1}{2}$. With rubber-covered cord. Wt., 1 lb.

B1214. NET..... \$4.41

REPLACEMENT HEADPHONE AND SPEAKER CORDS

Copper tinsel inner conductor covered with closely-woven cotton braid. Tips are firmly anchored. Shipping wt., 3 oz.

SINGLE CORDS

B2932. 4 foot cord. Tips on one end; spades on other. For speakers or single phone. **NET EACH..... 8c**

B2933. 4 foot cord. Tips on both ends. **NET EACH..... 10 for 75c. 100 for \$7.15.**

DOUBLE CORDS

B2934. Spades on one end. Tips on other. 5 foot cord. NET EACH..... 19c

B2935. Tips on both ends. 5 foot cord. 10 for \$1.75. 100 for \$16.95.

CANNON RUBBER CORDS

Durable rubber double head-set cord, 6 feet long. Shpg. wt., 1 lb. **B2936. NET..... 79c**

PHILMORE KITS AND SETS

1-TUBE BATTERY SET

An efficient and sensitive 1 tube Philmore battery set in kit form. Employs plug-in type coils. Tunes from 13 to 530 meters covering Amateur, Police Calls, Short-wave, Broadcast band, etc. Provides excellent reception with amazing volume and clearness. Especially suited for use in camp, on farm, or anywhere that electric current is not available. With coil for broadcast band (200 to 530 meters). Easy to assemble from clear instructions. Uses type 30 tube. Shpg. wt., 3 lbs. Less tube, batteries and phones. **\$1.18**

B7237. NET..... \$1.18

B7238. As above but wired. Less tube, batteries and phones. **\$1.65**

B7239. Batteries, 1-1 $\frac{1}{2}$ V., 1-45V. NET..... \$1.15

B7245. Kit of 4 coils (13 to 240 meters). NET..... 72c

B1328. Knight Type 30 Tube..... 36c

2 TUBE BATTERY KIT

Uses 2 type 30 tubes. Powerful enough to operate several sets of headphones at same time. With plug-in Broadcast band coil and full instructions. Wt., 4 lbs. Less tubes, batteries and phones. **\$1.49**

B7240. NET..... \$1.49

B7241. As above, but Wired. \$1.98

B7242. Batteries, 1-1 $\frac{1}{2}$ V., 2-45V. NET..... \$2.09

B7245. Kit of 4 coils (13-240 meters). 72c

B1328. Knight Type 30 Tubes. (2 required.) EACH..... 36c

2 TUBE AC-DC KIT

This 2 tube kit operates from 110 volts, AC or DC. Uses 2 type 76 tubes. With plug-in coil covering Broadcast band. Coil kit permits tuning Amateurs, Police calls, etc. Wt., 5 lbs. Less tubes and phones. **\$2.25**

B7243. NET..... \$2.25

B7244. As above but Wired. \$2.85

B7246. Kit of 4 coils (13-240 meters). NET..... 72c

B1351. Knight Type 76 Tubes. (2 required.) EACH..... 32c

1 TUBE TINY TIM

A one-tube battery set. Housed in airplane luggage cloth finished cabinet measuring but $5\frac{1}{2} \times 2\frac{1}{2} \times 3\frac{1}{2}$ and weighing only 1 lb. Uses 1-1E4G tube, 1-2 cell 3 volt flashlight type battery, and single earphone—all self-contained. Shpg. wt., 2 lbs. **\$3.23**

B7231. NET..... \$3.23

"PETER PAN" JUNIOR

Attractive crystal set in walnut cabinet. Brings in stations over 25 mile area with fine tone and clarity. Detector sealed at sensitive spot. Single dial control. Supplied with aerial and ground wire and single headphone. Size: $4\frac{3}{4} \times 3\frac{1}{2} \times 2\frac{1}{2}$. Shpg. wt., 2 lbs. **\$1.10**

B7247. Complete. NET \$1.75

B7248. Set Only. NET..... \$1.10

"PETER PAN" SENIOR

Sensitive and efficient crystal set built into an attractive walnut cabinet. Has fixed crystal detector, single dial control, variable tuning condenser, spider web coil, etc. Complete with aerial, ground wire and quality headphones. $6\frac{1}{4} \times 5\frac{1}{4} \times 3\frac{3}{4}$. 3 lbs. **\$3.75**

B7234. Complete. NET \$3.75

B7235. Set Only. NET..... \$2.15

WIRELESS TYPE REMOTE PHONO CONTROL

Makes it easy to operate any record player or pickup through your radio set by remote control. No connection to your radio is required. Simply connect any record player or pickup to this wireless control to reproduce records through any radio. Will play through one or a dozen sets at a time. Always stays in tune, assuring excellent tone quality from your records. Control panel has off-on switch and is adapted for terminals or tip jacks. No wiring necessary. Compact, attractive brown cradle case. Size: $7 \times 4 \times 3\frac{1}{2}$. Complete with two tubes (25Z5 and 6A7); 6-foot AC cord; 20-foot aerial wire for operating at distances greater than 10 feet; and simple instructions. For 110 V. AC or DC. Shpg. wt., 6 lbs. **\$4.75**



NEW ICA PIED PIPER CRYSTAL SET

A modern type crystal radio that offers the utmost in crystal set reception and appearance. Finest quality components are housed in handsome black bakelite case—a real beauty! Has crystal adjustment control and tuning dial on front panel. Unusually sensitive; provides clear, full-toned reception. Ideal for hospitals, offices, etc. 8 $\frac{1}{2}$ inch compact, easily portable. Measures $6\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{4}$. Supplied less accessories. Shipping wt., 3 lbs. **\$1.90**

B5625. NET..... \$1.90

CRL PHONOHMS

A new unit offering convenient control facilities for headphones. Compact, portable control in lightweight bakelite case with knob. Easily installed. Potentiometer types for use with single head set. "L" Pad types for group installations such as schools, theaters, churches, requiring inexpensive, easily adjustable controls. Less cord. Shpg. wt., 1 lb.

No.	Ohms	Type	EACH
B3922	5,000	Potentiometer	88c
B3923	10,000	Potentiometer	
B3924	100,000	Potentiometer	\$1.18
B3925	5,000	"L" Pad	
B3926	10,000	"L" Pad	
B3927	100,000	"L" Pad	

NEW CANNON "CHIEF" HEADPHONES

Ruggedly-built, improved headphones with high quality all-bakelite cases and caps. Professional appearance and performance. 2 $\frac{1}{2}$ -inch diameter diaphragms; double-coil type magnets for greater sensitivity; comfortable braided-covered headband. Terminals are inside case, eliminating danger of shocks. Supplied complete with $4\frac{1}{2}$ -foot cord and standard tips. In great demand with professional and amateur radio men. Used in countless commercial and "ham" stations. Shpg. wt., 2 lbs.

B2939. 3000 Ohms. NET..... \$2.25

B2940. 5000 Ohms. NET..... \$2.65

ICA EARPHONE CUSHIONS

Finest quality soft rubber ear cushions. Scientifically molded to provide maximum comfort. Ideal for amateurs, wireless operators, and all other users of headphones. Used by all leading air lines. Fits all types of phones. Essential to the comfort of headphone users. Shipping weight, 1 lb.

B5626. PER PAIR..... 39c

10 PAIRS..... \$3.50



HEADPHONES CRYSTAL SETS Accessories

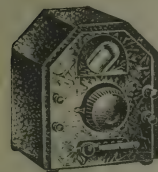
PHILMORE "DWARF" 1 TUBE SET



tube and two 2-cell flashlight type batteries. Supplied ready to operate, complete with tube, batteries, and single earphone. Available only complete with accessories. Shpg. wt., 3 lbs. **\$3.90**

B7232. NET

PHILMORE CRYSTAL SETS THE "SELECTIVE"



This well-built set is especially designed to give maximum selectivity. Built with a tapped coil matched with a .00035 mfd. variable condenser. The reception on this set is loud and clear. It is exceptionally sensitive and very easy to tune. It has double connection posts making possible the use of two pairs of headphones at one time. Covers reception range of about 25 miles. In crackle finish cabinet. Shpg. wt., 3 lbs. **\$2.35**

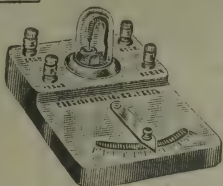
B7053. NET

THE "SUPERTONE"

A well-constructed crystal set which will give unlimited service. Offers the utmost in entertainment on local stations over average distance range of about 25 miles when suitable aerial is used. Use antenna or accessory kit listed below for best results. A sensitive crystal is enclosed in a dust-proof glass casing. Housed in bakelite case. Shpg. wt., 2 lbs. **\$1.42**

B7051. NET

69.

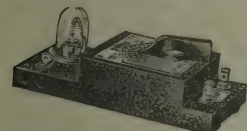


THE "MONARCH"

A sensitive crystal set which receives stations 25 miles away when used with suitable aerial. Has dust-proof, glass-enclosed crystal and engraved calibrated dial with bar knob. Metal case. Shpg. wt., 1 lb. **\$1.42**

B7236. NET

98.



I.C.A. "TOPNOTCH"

Brings in many stations with exceptional clarity and volume. Crystalline metal case. Dust-proof, glass-covered crystal. Engraved dial, bakelite knob. Shpg. wt., 1 lb. **\$1.42**

B7148. NET

80.

B7149. Topnotch Crystal Set Kit. A building the above set. Ideal set-building experience for the beginner. Shpg. wt., 1 lb. **\$1.42**

NET

CRYSTAL SET ACCESSORY KIT

Complete equipment for operating any crystal set. Also ideal for small battery receivers. Includes headphones, aerial and ground wire, lead-in strip, lightning arrester, insulators, etc. Wt., 4 lbs. **\$1.42**

B7054. NET

STANDARD ANTENNA KIT

B3485. 90 ft. aerial wire; 25 ft. lead-in; window lead-in strip; insulators and ground clamp. Shpg. wt., 4 lbs. **\$1.42**

NET

CARRON CRYSTAL SETS



THE "MIDGET"

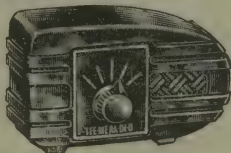
Midget model crystal radio set built into a sturdy solid walnut cabinet. Unusually attractive in appearance. Average reception range covers about 25 mile area. Brings in programs clearly and distinctly without distortion. Has spring action locator and station selector knob. Complete with special earphone and roll of ground wire. Size: $4\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{4}$. Shpg. wt., 3 lbs. **\$1.31**

B9311. With Accessories. NET

\$1.31

B9310. Set Only. NET

88.



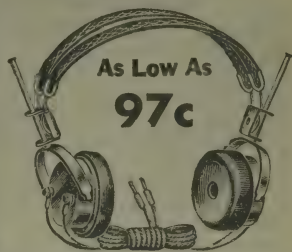
BAKELITE MODEL

Novel midget crystal radio with self-contained earphone. Very neat and compact. Complete set is housed in polished mahogany-colored bakelite cabinet of modernistic streamlined design. Earphone fits conveniently into compartment in case. Average range is about 25 miles. Has extremely sensitive fixed crystal; one tuning knob controls reception. Weighs only 5 ounces measures but $4\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{4}$. Supplied complete with earphone, aerial wire, and full instructions. Wt., 2 lbs. **\$1.62**

B9314. NET

AMERICAN BELL HEADPHONES

These sensitive and efficient headphones, produced by one of America's foremost manufacturers, are noted for tonal fidelity and clarity. Supplied with aluminum case and either bakelite or aluminum caps. Braid-covered light-weight adjustable headband adds to comfort in wear and long-life utility. High-grade magnet retains its magnetism for life of headphone. Magnet of alloy developed to withstand magnetism-destroying shocks. Solenoid coils are well-insulated and firmly mounted in headphone shell. Supplied with 5 ft. cord. Ideal for use with crystal or battery sets as well as for all general-purpose requirements. Preferred by many amateurs for phone and CW reception. Shipping wt., 2 lbs.



As Low As
97c

WITH BAKELITE CAPS

B2891. 2000 Ohms. **97c**
NET
B2892. 3000 Ohms. **97c**
NET.....**\$1.25**

WITH ALUMINUM CAPS

B2806. 2000 Ohms. **97c**
NET
B2807. 3000 Ohms. **97c**
NET.....**\$1.25**

SINGLE HEADPHONES

A well-built, low-priced headphone designed for comfort in wear. Very lightweight construction, yet built for durability and long service. Uses magnet alloy developed to retain magnetism in spite of severe handling. Headphone performance is consistently stable. Bakelite caps are of high-quality plastic compound. Aluminum caps are recommended for featherweight lightness. Single units may be used on any set equipped for phones; ideal for multiple hearing-aid installations. Complete with cord. Shpg. wt., $1\frac{1}{2}$ lbs.



WITH BAKELITE CAPS

B2799. 1000 Ohms. **66c**
NET
B2800. 1500 Ohms. **66c**
NET.....**79c**

WITH ALUMINUM CAPS

B2813. 1000 Ohms. **66c**
NET
B2814. 1500 Ohms. **66c**
NET.....**79c**

ACCESSORIES FOR ABOVE

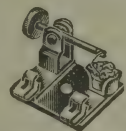
EXTRA DIAPHRAGMS

Exact replacements for above.
B2809. EACH.....**5c**

REPLACEMENT CAPS

B2808. Aluminum.....**12c**
B2803. Bakelite.....**12c**

CRYSTALS & CRYSTAL DETECTORS



OPEN TYPE DETECTOR

Universal joint on swivel arm provides quick, accurate adjustment on any point of the very sensitive crystal. Complete with crystal. Shpg. wt., 8 oz. **12c**

B7062. EACH

10 FOR.....**\$1.10**

ENCLOSED DETECTOR

A high-grade dust-proof glass enclosed detector complete with supersensitive crystal. Standard in 90% of the crystal sets made. A fast selling item. Shpg. wt., 8 oz. **22c**

B7061. EACH

10 FOR.....**\$1.10**



FIXED DETECTOR

Extremely sensitive. Selected crystals are meter-tested and permanently adjusted. Housed in compact bakelite case. Eliminates bother of continual adjustment for sensitive spot. Pre-tested. Wt., 8 oz. **43c**

B7063. EACH

10 FOR.....**\$4.30**

FEDERAL DETECTOR

This fixed detector will give more stability to crystal sets or reflex circuits. Sensitivity is permanently fixed. Mounted in small bakelite case with screw connectors. Tested. 8 oz. **53c**

B4154. EACH

10 FOR.....**\$5.30**



METER TESTED CRYSTAL

These crystals are laboratory tested on very sensitive meters. Crystals of genuine Galena. Fit all crystal cups. 6 oz. **10c**

B4150. EACH

10 FOR.....**\$1.00**

MOUNTED CRYSTAL

Carefully tested mounted crystal. Sensitive galena, encased in lead. Fits all standard crystal cups. 6 oz. **5c**

B4151. EACH

10 FOR.....**\$0.50**

CAT WHISKERS

Set of three. Correctly designed and made of the finest quality phosphor-bronze wire. 5 oz. **8c**

B4152. PER SET

10 SETS.....**70c**



EARPHONE CUSHIONS

Ideal for those who wear headphones constantly. Made of soft sponge rubber. Fit all headphones. 12 oz. **23c**

B2810. PAIR

10 PAIRS.....**\$1.98**



NEW COILS FOR ALL PURPOSES

LATEST TYPE MEISSNER COILS

PLASTIC REPLACEMENT I.F. TYPE COILS



A radically new line of I.F. transformers priced remarkably low. Trimmer base and coil form are molded in one piece from plastic material absolutely unaffected by moisture. Specially-served Litz wire is used for the coils. The extremely compact size, $1\frac{1}{4}$ " square by $2\frac{1}{2}$ " high, makes it an ideal replacement unit for any set. Shield can is of aluminum. Transformers are double-tuned. Wt., 1 lb.

Freq.	Input No.	Interstage No.	Output No.
175	B4930	B4931	B4932
262	B4933	B4934	B4935
370	B4936	B4937	B4938
456	B4939	B4940	B4941

NET EACH.....**59.**

UNIVERSAL ADJUSTABLE FERROCART COILS



These units permit exact duplication of defective R.F., Ant., or Osc. coils. Inductance is variable over a wide range to permit tracking. Shield size, $1\frac{1}{4} \times 1\frac{1}{4} \times 2\frac{1}{2}$ ". Mounts in small space. 12 oz.

SHIELDED TYPES

B5795. Antenna Coil. } NET EACH **\$1.18**
B5796. Oscillator Coil. }
B5797. R.F. Coil.

UNSHIELDED TYPES

B4990. Antenna Coil. } NET EACH **73.**
B4991. R.F. Coil. }
B4992. Oscillator Coil.

IRON-CORE BAND-EXPANDING I.F.'S



An iron-core I.F. transformer with sharp selectivity for efficient C.W. or foreign reception. Also provides broad band-width for high-fidelity local-station reception. Electrically variable. Two of these units may be used to provide almost single-signal selectivity. 456 K.C. factory-set; range 340-640 K.C. Mica-tuned type. Size, $1\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$ ". Wt., 1 lb.

B5768. 2 Position. Sharp selectivity and Broad for High Fidelity. NET.....**\$1.76**

B5769. 3 Position. Sharp selectivity, Broad for High Fidelity, Medium for average use. NET.....**\$2.06**

HIGH-GAIN THREE PI I.F. TRANSFORMERS



New type highly efficient I.F. transformers with three pi windings on primary and secondary. Exceptionally high gain. For best results, only one should be used in a receiver in single-stage I.F. amplifier. Double-top-tuned with ceramic-base mica-insulated trimmers. Cans measure $1\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$ ". Quality-built units. Wt., 1 lb.

B5812. 456 KC Input. NET.....**\$1.09**

B5813. 456 KC Output. NET.....**\$1.09**

OSCILLATORS



Compact, thoroughly impregnated oscillator coils particularly designed for use with Pentagrid tubes. Exceptionally easy to mount. Each unit has bakelite base with lug terminals. Designed for use with 365 mmf. TRF variable condenser and a padder. Duo-lateral wound coils. Wt., $\frac{1}{2}$ lb.

UNSHIELDED TYPE

B5820. 175 KC. Use 900 mmf. padder. NET EACH.....**44.**

SHIELDED TYPE

B5822. 175 KC. Use 900 mmf. padder. NET EACH.....**56.**

FERROCART IRON-CORE I.F. TRANSFORMERS

Incorporates a finely powdered iron-core with each particle insulated from the others, resulting in a higher "Q." Gain and selectivity are nearly twice that of air-core types. Ideal for replacements or original installations. Double-tuned from top; mica insulated; $1\frac{1}{4}$ " square $3\frac{1}{2}$ " high. With instructions. Shpg. wt. 1 lb.



Freq.	Input No.	Interstage No.	Output No.
175 KC	B5800	B5804	B5808
456 KC	B5801	B5805	B5809
1500 KC	B5802*	B5802*	B5810

*Input or Interstage. NET EACH.....**\$1.18**

DUAL BAND COILS

Efficient Short-Wave and Broadcast coils for the serviceman and experimenter. Shielded types are complete with mica-dielectric trimmers. Use with 456-465 KC. IF systems. For 365 mmf. T.R.F. variable condensers. Wt. 12 oz.



BROADCAST AND POLICE

Cover 67-200 meters and 193-565 meters.

Shielded	Antenna R.F. Oscillator	Unshielded
B7500		B7503
B7501		B7504
B7502		B7505

NET EACH...**\$1.59** | NET EACH...**\$1.09**

B7514. Dual Adjustable Padding Condenser. Each section 180-620 mmfd. Correct padder for oscillator coils above. 1 lb. NET.....**32.**

B5775. 3 Gang 2 Position Switch. For use with coils listed above. For making front-of-panel band changes. Wt., 1 lb. NET.....**88.**

THREE BAND COILS

Similar to 2 band coils above, but have 3 band coverage. Trimmer condenser bank mounted on one side for ease of adjustment. Supplied in the most popular bands. Fully shielded. Well-built for dependable reception.



BROADCAST, POLICE & S.W.

For use with 450 mmf. condenser. Range: 170-555; 56-171; 16.2-57.7 meters. Shpg. wt. 1 lb.

B5910. Antenna	EACH
B5911. R.F.	\$2.06
B5912. Oscillator	
B5761. Padding Condenser Kit	73c
B5776. 3 Gang 3 Position Switch.	\$1.18

BEAT FREQUENCY OSCILLATORS

Especially designed units for use in incorporating beat-frequency oscillators in all-wave or short-wave receivers not already so equipped. Will provide "beat-note" tuning for locating weak signals, or for code reception. Can size, $1\frac{1}{2}$ " square x $3\frac{1}{2}$ ". With pitch control knob on top. Mica-insulated trimmer. 1 lb.



B5818. 456 KC. NET **\$1.03**
B5874. 1500 KC. EACH

REPLACEMENT PRIMARY WINDINGS

High-impedance replacement type primary windings. Permit repairs to be made with a minimum of expense and time. Antenna inductance, 1.7 MH.; R.F. inductance is 3.5 MH. The dimension given below is the outside diameter of the coils with which these windings may be used. Shpg. wt., 2 oz.



Cat. No.	Inside Dia.	Type	Cat. No.	Inside Dia.	Type
B2971	$\frac{3}{8}$ "	ANT.	B2976	$1\frac{1}{16}$ "	ANT.
B2972	$\frac{3}{8}$ "	R.F.	B2977	$1\frac{1}{16}$ "	ANT.
B2973	$\frac{1}{2}$ "	ANT.	B2978	$1\frac{1}{16}$ "	R.F.
B2974	$\frac{1}{2}$ "	R.F.	B2979	$1\frac{1}{16}$ "	ANT.
B2975	$\frac{3}{8}$ "	ANT.	B2980	$1\frac{1}{16}$ "	ANT.

NET EACH.....**12c**

KNIGHT COILS

STANDARD I.F. TRANSFORMERS

Standard high-gain IF transformers of superior design. Ideal for replacements and new set building. Lattice-wound primary and secondary tuned by mica-insulated compression type condensers from top of can. RMA color-coded leads. Aluminum cans measure $1\frac{1}{8}$ " square and $3\frac{1}{2}$ " high. Wt., 1 lb.



Freq.	Input No.	Interstage No.	Output No.
175 KC	B5835	B5838	B5841
262 KC	B5836	B5839	B5842
456 KC	B5837	B5840	B5843

NET EACH.....**54c**

5 FOR.....**\$2.55**

CENTER-TAPPED OUTPUTS

B5783. 175 KC. **54c**
B5784. 456 KC. EACH.....

KNIGHT IRON-CORE I.F. TRANSFORMERS

These compact units have high permeability iron-cores and low-loss windings to provide maximum sensitivity and selectivity. Double-tuned from top with mica insulated trimmers. Shield can measures $1\frac{1}{8} \times 1\frac{1}{8} \times 3\frac{1}{2}$ ". Mounting centers, $1\frac{1}{2}$ ". With RMA color-coded leads. Wt., 1 lb.



Freq.	Input No.	Output No.
175 KC	B4983	B4986
456 KC	B4984	B4987
1500 KC	B4985	B4988

NET EACH.....**98c**

HIGH-IMPEDANCE LITZ COILS

Bank-wound Litz wire. With 370 mmfd. condenser covers 1500 to 540 K.C. Shielded type size, $2\frac{1}{4}$ " high, $1\frac{1}{4}$ " x $3\frac{1}{4}$ " dia.; unshielded, $2\frac{1}{4}$ " high, $\frac{7}{8}$ " dia. High-impedance primaries.

Type	Unshielded	Shielded
Ant. B5908		B5906
R.F. B5909/Ea.	27c	B5907/Ea. 35c

4-TUBE KITS

1 Ant. & 1 R.F. **\$1.24**
B5914. Unshield. **53c**
B5913. Shielded **69c**

5-TUBE KITS

1 Ant. & 2 R.F. **\$1.79c**
B5924. Unshield. **79c**
B5923. Shld... **\$1.03**

HIGH-GAIN TRF COILS

Same as above, but with low-impedance primaries. High sensitivity. Shpg. wt., 6 oz.

Type	Unshielded	Shielded
Ant... B5777		B5844
R.F.... B5778/Ea.	27c	B5845/Ea. 35c

COIL KITS

4-tube kit has 1 Ant. and 1 R.F. coil, 5-tube kit has 1 Ant. and 2 R.F. coils. With diagram.

4-TUBE KITS

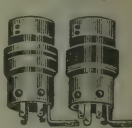
B5779. Unshielded Coil Kit. NET.....**53c**
B5846. Shielded Coil Kit. NET.....**69c**

5-TUBE KITS

B5780. Unshielded Coil Kit. NET.....**79c**
B5847. Shielded Coil Kit. NET.....**\$1.03**

MIDGET SOLENOID COILS

Wound with enameled wire on special tubing $1\frac{1}{8}$ " long and $1\frac{1}{8}$ " in diameter. For replacement in midget TRF sets. Primaries are adjustable. Unshielded. Tapped coils permit amateur and police reception. For use with 370 mmf. condenser. 540 to 1750 K.C.



B6590. R.F. Coil. } EACH **15c**
B6591. Antenna Coil. }
B6588. Set of 2 Coils. NET.....**29c**
B6589. Tapped for 2400 KC. 1—Antenna coil and 1—RF coil. Wt., 1 lb. NET, per set of 2 Coils.....**35c**

COILS • COIL FORMS • COIL KITS

MILLER IRON CORE R.F. COILS

Small size R.F. coils, especially desirable for use in auto or other sets where a high-gain coil of small physical size is required. In aluminum shield cans measuring $1\frac{1}{4}$ " diameter and 2" high. For use with 370 mmf. condensers. Wt., 8 oz.

B5684. Antenna Coil. } EACH 88.
B5685. R.F. Coil. }
B5686. Oscillator Coil (465 KC) NET 88.
 (Use 400 mmf. pad.)

ANTENNA & R.F. COILS

High-gain fully shielded coils for use with green grid tubes. High impedance primaries. R.F. coil has primary at 90° angle to provide uniform amplification throughout entire range. For 370 mmf. condenser. $1\frac{1}{2}$ " dia., 3" high. Tune 540 to 1750 KC. Wt., 8 oz.

B5848. Antenna Coil. EACH 54.
B5849. R.F. Coil. EACH 54.

PHONO OSCILLATOR TYPE COIL

For constructing either a "wireless" or a direct-connected phono oscillator. Tunes entire broadcast band. Coil thoroughly impregnated. Black crackle-finished shield can, $1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $3\frac{1}{2}$ ". With instructions. Wt., 12 oz.

B5814. NET 1.45

UNSHIELDED PRESELECTORS

High-gain band-pass preselector coils for the broadcast band. Litz-wound. Range, 1500-540 KC. with 365 mmf. condenser and 1715-550 KC. with 410 mmf. Wt., 6 oz.

B5811. For 365 mmf. EACH 52.
B5803. For 410 mmf.

10 K.C. FILTER COIL

For use in the load circuit of a dipole or infinite impedance detector, to eliminate 10 KC. whistle in wide-range broadcast receivers. Attenuation at 10,000 cycles, approx. 30 db. Size: $1\frac{1}{2}$ " square. $2\frac{1}{2}$ " long. Wt., 1 lb.

B6587. NET 1.32

RADIO FREQUENCY CHOKES

AIR CORE

Compact, silk-covered wire, R.F. chokes. High impedance, lattice-wound type. Thoroughly impregnated for trouble-free service. Shielded or unshielded. Wt., 6 oz.

Unshielded	MH	Shielded
B5605	$2\frac{1}{2}$	B5613
B5628*	$2\frac{1}{2}$	
B5606	$2\frac{1}{2}$	B5614
EACH		EACH
B5608	8	B5616
B5621	10	B5629
B5609	16	B5617
EACH		EACH
B5610	30	B5618
EACH		EACH
B5611	60	B5619
B5612	80	B5620
EACH		NET
B5622*	29c	80
		EACH

*Polarized section winding construction.

IRON CORE

New High-Q R.F. chokes; may be used in place of air-core chokes for higher efficiency. Reduce number of turns, thus lowering distributed capacity. Wt., 6 oz.

No.	MH	NET	No.	MH	NET
B5785	$2\frac{1}{2}$	34c	B5789	30	46c
B5786	$3\frac{1}{2}$	34c	B5790	60	53c
B5787	$3\frac{1}{2}$	37c	B5791	80	59c
B5788	10	41c	B5792	125	79c

PLUG-IN TYPE COILS



Space-wound coils for use with 140 mmf. condensers. Forms are smooth bakelite, $1\frac{1}{4}$ " diameter and $2\frac{1}{4}$ " high; have rim-top.

Bases fit standard tube sockets. Supplied with diagrams. Shpg. wt., 2 lbs.

4 PRONGS — 2 WINDINGS

B5565. Short-Wave Coil Kit. 4 coils cover range from 9.5 to 217 meters. NET 85.

B5566. Broadcast Coil Kit. 2 coils cover range from 190 to 550 meters. NET 65.

6 PRONGS — 3 WINDINGS

B5568. Short-Wave Coil Kit. Primary, secondary, and tickler windings. Cover 9.5 to 200 meters. 4 coils in kit. NET 1.35

B5569. Broadcast Coil Kit. 2 coils cover 190 to 550 meters. NET 85.

BAND-SPREAD COILS

5 prong coils with band-setting condenser mounted on top. For use with 140 mmf. condenser. With ceramic base trimmers. Wt., 8 oz.

No.	Meters	Range-MC	NET
B1920	20	14.43-13.95	EACH
B1921	40	7.73-7.0	
B1922	80	4.35-3.61	45.
B1923	160	2.1-1.713	
B1924	Kit of 4 coils.		
			1.70

BAKELITE RIBBED TYPE



$1\frac{1}{2}$ " diameter and $2\frac{1}{4}$ " high; molded ribs for low-loss winding; rim handles. Uniform windings for use with 140 or 150 mmf. condenser. Bases fit 4-contact tube sockets. Discs in top indicate frequency. Wt., 2 lbs.

B5574. Short Wave Coil Kit. Set of four coils covers 9.5 to 217 meters. NET 1.15

B5575. Broadcast Coil Kit. 2 coils cover 190 to 550 meters. NET 94.

BAKELITE COIL FORMS

RIM TYPE



Low-loss, with high dielectric strength. Molded rim handle for easy grip. $1\frac{1}{4}$ " dia., $2\frac{1}{4}$ " high.

No.	Prongs	EACH
B1930	4	
B1931	5	10.
B1932	6	
B1934	7S	18.
B1935	8S	

SMALL RIBBED TYPE



Genuine molded bakelite; $1\frac{1}{2}$ " diameter, $2\frac{1}{4}$ " high. Have molded ribs for low-loss winding. Wt., 4 oz.

No.	Prongs	NET EACH
B5700	4	
B5701	5	12.
B5702	6	

LARGE RIBBED TYPE



Large ribbed coil forms of molded bakelite for winding low-loss coils. $1\frac{1}{2}$ " diameter with $3\frac{1}{2}$ " winding space. Have molded rim at top.

No.	Prongs	NET EACH
B5703	4	
B5704	5	17.
B5705	6	
B5706	7M. SPECIAL	
		7c

COIL BUILDING & REPAIR KIT



Complete Sickle's kit especially suited to the needs of all Servicemen and Set Builders. Costs less than most replacement coils. Consists of assorted coil forms of various sizes and lengths, plus 15 packages of eyelets, lugs, tape and varnished cambric, washers, spade bolts, etc. All forms punched for wiring. See p. 136 for magnet wire, and p. 184 for coil winding machine. Shpg. wt., 4 lbs.

B7175. NET 1.95

FREQUENCY MODULATION COILS BY CARRON DISCRIMINATORS



Designed expressly for Frequency Modulation reception. Operate at 4300 KC to offset images in FM band. Size: Standard, $1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $2\frac{1}{2}$ "; Deluxe, 2 " x 3 " x $2\frac{1}{2}$ ". Deluxe unit features air-tuned secondary, ceramic forms, DC choke. Shielded. 10 oz. **B7171.** S414. Standard. NET 1.03
B7170. S415. Deluxe. NET 2.35

F-M I.F. COILS

4300 KC frequency. Wide acceptance characteristic. Size, $1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $2\frac{1}{4}$ ". Shielded. **B7172.** S411. 1st I.F. **B7173.** S412. 2nd I.F. **B7174.** S413. 3rd I.F. NET EACH. 97.



REPLACEMENT MAJESTIC I. F. TRANSFORMER COILS

Will fit in original Majestic shield cans without change. Well-constructed. Thoroughly impregnated; moisture-proof. Wound of double-coated enameled wire on paper tubing. Less tuning condenser and can. Av. shpg. wt., 4 oz.

Cat. No.	Majestic Part No.	Model	NET EACH
B7150	4428	15, 15B, 150	\$0.30
B7165*	4428	15, 15B, 150	1.24
B7153	3384	55	1.34
B7166*	3908	20	1.38
B7154	6506	55	1.37
B7158	6250	200	1.36
B7152	6127	210	1.36
B7153	7812	390, 310, 330	1.39
B7155	10149	460	1.35
B7159	10253	460, 800	1.40
B7159	11014	800	1.40
B7167	8857	Primary coil used as RF plate coil in Models 290, 300, 310, 330, 460, 520 and 800.	1.36

*Complete assembly in shield can.

WE CAN SUPPLY exact duplicate or adequate replacement coils for any set. When ordering, state name, model and type of set, where coil is used, bands covered, condenser type, tubes used, etc. Cost depends on coil specifications. Send old coil for quotation or send deposit for replacement without delay.

REPLACEMENT COILS FOR FAIRBANKS-MORSE RADIOS

Coils supplied without shield cans or trimmers. Fit perfectly into old shields without drilling.

Stock No.	Original Part No.	Type	Used in Chassis	NET EACH
B2956	503-3	Osc.	9A	94c
B2957	502-2	RF.	9A-12A	
B2958	502-1	RF.	8A	
B2959	501-5	Ant.	9A-12A	1.53
B2960	5978	RF.	72-73	
B2962	503-6	Osc.	12A	

ALLIED can supply almost all replacement parts for Fairbanks-Morse radios. Order by Fairbanks-Morse part numbers, and exact duplicates will be shipped from stock. ALLIED is the exclusive Fairbanks-Morse Radio parts distributor.

THREE CIRCUIT TUNER



Tuner has primary, secondary, and variable tickler windings. Designed for use with a 350 mmf. variable condenser. Pigtail tickler connections assure positive contact at all times.

TAPPED FOR SHORT WAVE

Both the three circuit tuner and the R.F. coil are tapped for short wave as well as standard broadcast reception. Shpg. wt., 1 lb. **B7174.** Tuner. NET 78.
B1705. R. F. Coil to match Tuner. NET 34.

VARIABLE CONDENSERS & TUNERS

USL MIDGET CONDENSERS



Ideal for Short Wave use. $\frac{1}{4}$ " shaft extends $\frac{3}{8}$ " from front of condenser. $\frac{3}{8}$ " bushing allows rigid mounting on panels up to $\frac{1}{4}$ " thick. Single hole mount, fits $\frac{3}{8}$ " hole. Size with plates open, $1\frac{1}{2} \times 1\frac{1}{2}$ ". Average shpg. wt., 1 lb.

No.	Plates	Min. Mmf.	Max. Mmf.	NET
B4125	3	3	15	34c
B4126	5	4	30	37c
B4127	7	5	45	40c
B4128	9	6	60	43c
B4132	12	7	80	46c
B4139	18	7	100	46c
B4123	18	8	125	51c
B4130	20	8	140	57c

DOUBLE-SPACED MIDGETS

B4123	11	6	35	57c
B4124	14	7	50	77c

SHAFT FITTINGS

For Every Purpose



Split Bushing

Coupling

Extender

COUPLINGS AND EXTENSIONS

Couplings are for extending shafts of volume controls, condensers, etc., or for ganging single units, even when shafts are not of same diameter. Extenders are for decreasing or increasing shaft diameter and for extending shaft length.

Size	Kind	Insulated	Stock No.	Brass
$\frac{1}{2} \times \frac{1}{4}$ "	Coupling	B4570	B4576	
$\frac{3}{8} \times \frac{3}{8}$ "	Coupling	B4571	B4577	
$\frac{1}{2} \times \frac{3}{8}$ "	Coupling	B4572	B4578	
$\frac{1}{4}$ to $\frac{1}{4}$ "	Ext.	B4573	B4579	
$\frac{3}{8}$ to $\frac{1}{4}$ "	Ext.	B4574	B4580	
$\frac{1}{2}$ to $\frac{3}{8}$ "	Ext.	B4575	B4581	
Assorted Per 10	Assorted Per 100	NET EACH		
85c	\$8.25			9c

BRASS AND FIBRE SHAFTING

For extensions or replacements. $\frac{1}{4}$ " dia.

B4582.	Brass.	6" long.	EACH	9c
B4583.	Brass.	12" long.	EACH	18c
B4584.	Fibre.	6" long.	EACH	9c
B4585.	Fibre.	12" long.	EACH	18c

SPLIT BUSHING

For increasing shaft diameter from $\frac{1}{4}$ " to $\frac{3}{8}$ ". Brass, $\frac{1}{4}$ " I.D.— $\frac{3}{8}$ " O.D.— $\frac{3}{8}$ " long.

B4586. Per 10, 35c. EACH.....5c

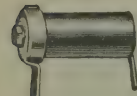
PANEL BEARING ASSEMBLY



For use with rigid or flexible couplings for mounting volume controls, etc., away from the panel. Use these panel bearings for reducing body capacity in UHF equipment. Made of brass. Take panels up to $\frac{3}{8}$ " thick. For $\frac{1}{4}$ " shafts. Supplied with 2 fibre insulating washers. Wt. 1 lb.

B5727.	Overall length 3".	NET	18c
B5728.	Overall length 6".	NET	24c
B5729.	Bearing only.	NET	5c

MEISSNER "ALIGNAIRE" ALIGNING CONDENSERS



A small compact trimmer with bakelite body measuring $1\frac{1}{2}$ " long by $\frac{3}{4}$ " in diameter. Has combination metal cover and mounting bracket. Dust and moisture-proof. Capacity 1-12 mmf. 6 oz.

B5760. NET.....21c

GEAR REDUCTION UNIT



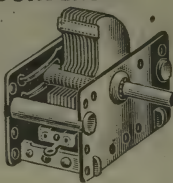
6 to 1 ratio. For use with any condenser not equipped with reduction gear. Has double-driven gear and anti-backlash spring. $\frac{1}{4}$ " drive shaft. Vise-holds condenser firmly. 10 oz.

B4111.	For $\frac{1}{4}$ " shaft.			
B4108.	For $\frac{3}{8}$ " shaft.	EACH		44c

KNIGHT COMPACT PRECISION CONDENSERS

SINGLE TYPE

General-purpose compact single gang condensers. Low-loss bakelite insulation. Measure $3\frac{1}{4} \times 1\frac{1}{2}$ ". $\frac{1}{4}$ " deep. $\frac{1}{4} \times 1\frac{1}{2}$ " shaft. Very rigid, sturdy construction throughout. Capacity increases clockwise. Supplied less trimmers. Wt., 1 lb.



B4144.	50 Mmf.			
B4115.	100 Mmf.			
B4116.	140 Mmf.			
B4114.	240 Mmf.			
B4117.	370 Mmf.			
B4118.	450 Mmf.			

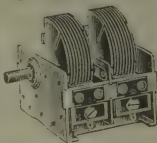
NET EACH

72c

B4121. .0005 Mfd. A popular type used extensively in Short-Wave and All-Wave set building. NET.....75c

370 MMF. GANG CONDENSERS

New, easy-to-mount compact condenser assemblies of superior design and construction. Trimmers mounted on both sides. Plates slotted for accurate alignment. Maximum capacity, 370 mmf. Clockwise rotation. $\frac{1}{4}$ " shaft extends $1\frac{1}{2}$ ". End shields measure $2\frac{3}{8} \times 1\frac{1}{4}$ ". Can be used as tuning condensers in set-builders kits. Shpg. wt., 2 lbs.



B4141.	2 Gang	85c	B4143.	3 Gang	\$1.29
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450 MMF. GANG CONDENSERS

Capacity increases clockwise. Trimmers at both sides. Threaded hole mounting. End shields, $2\frac{3}{8} \times 1\frac{1}{4}$ ". Shaft, $1\frac{1}{8} \times \frac{1}{4}$ ". Wt., 2 lbs.

B4145.	2 Gang	85c	B4146.	3 Gang	\$1.59
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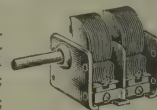
140 MMF. GANG CONDENSERS

Ball-bearing pivots. Easily removed trimmers mounted on both sides. End measures $1\frac{1}{2} \times 2\frac{3}{8}$ ". Shaft, $1\frac{1}{8} \times \frac{1}{4}$ ". Shpg. wt., 2 lbs.

B4147.	2 Gang	85c	B4148.	3 Gang	\$1.59
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COMPACT 370 MMF. 2 GANG CONDENSER

This new compact mid-type 2 gang condenser is well-designed and ruggedly constructed. End plate measures $1\frac{1}{8} \times 1\frac{1}{4}$ "; overall length, $2\frac{1}{2}$ "; shaft, $\frac{1}{4} \times 1\frac{1}{2}$ ". Has ball-bearing pivots, trimmers, and threaded mounting holes. Shpg. wt., 2 lbs.



B4140. NET.....59c

MEISSNER CONDENSERS

These precision-built three-gang variable condensers are rigidly constructed to give the very highest quality performance possible. Counter-clockwise rotation increases the capacity. Average shipping weight is 3 lbs.

3-GANG CONDENSERS

B5763.	365 Mmf.	With trimmers	\$2.35
B5764.	365 Mmf.	Less trimmers	2.22
B5765.	410 Mmf.	Less trimmers	2.22
B5766.	450 Mmf.	Less trimmers	2.26

B5762. 280 Mmf. Less trimmers. Electrical bandspread type. Ceramic insulation. Shpg. wt., $4\frac{1}{2}$ lbs. NET.....\$4.41

4-GANG CONDENSERS

B5767. 365 Mmf. With trimmers. Clockwise rotation increases capacity. Shpg. wt., $4\frac{1}{2}$ lbs. NET.....\$2.94

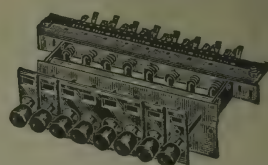
TRIMMER CONDENSERS

A new small-size trimmer condenser, ideal for balancing, trimming, neutralizing, antenna coupling, etc. Of sturdy construction on low-loss bakelite base measuring $\frac{3}{4} \times \frac{3}{4} \times \frac{1}{4}$ ". Full-plate type, with high grade mica dielectric. 5-35 mmf. Will mount inside coil form.



B2947. Ceramic Type. Has a ceramic base instead of bakelite. Low-loss. Measures $\frac{3}{4} \times \frac{5}{8} \times \frac{1}{8}$ ". 10 for 75c. NET EACH... 8c	
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MALLORY PUSH-BUTTON SWITCHES



For Set Analyzers, Tube Checkers, Intercom Units, Crystal Switching, or wherever making, breaking or transferring multiple circuits is required. Includes knobs, escutcheon, and blank inserts with transparent strip for windows. †Non-shorting type. Av. shpg. wt., 4 lbs.

No.	Type	Buttons	NET
B13000	Circuit Closing	4	\$2.35
B13001	Circuit Closing	6	2.94
B13002	Circuit Closing	8	3.53
B13003	Circuit Transfer	4	3.53
B13004	Circuit Transfer	6	3.94
B13005	Circuit Transfer	8	3.53
B13006	†Circuit Transfer	4	3.55
B13007	†Circuit Transfer	6	3.94
B13008	†Circuit Transfer	8	3.55

CARDWELL TRIM-AIR 5-10 METER CONDENSER

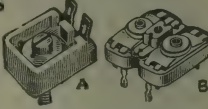
For use as midget tuning condenser or low power neutralization. Rigid Isolantite-mounted assembly with universal mounting. Type ZR-10AS. Cap. 10 mmf. Air gap .030". Wt., 1 lb.



B13630. NET.....75c

TRIMMER AND PADDER CONDENSERS

For HF, IF, and Oscillator circuits. First quality, mica-insulated; Isolantite base. Screw-driver adjustment. May be shunted by fixed mica condenser to increase maximum capacity. Solder lug type connectors. A is single type; B is double trimmer. Shpg. wt., 3 oz.



TYPE A

No.	Mmf.	NET	No.	Mmf.	NET
B6670	25-100	14c	B6676	325-1000	29c
B6671	75-225	16c	B6677	400-1200	31c
B6672	125-350	19c	B6678	500-1400	34c
B6673	175-500	20c	B6679	600-1600	37c
B6674	225-650	23c	B6680	700-1800	39c
B6675	275-825	27c			

TYPE B

B6490	20-90	14c	B6494	200-600	30c
B6491	50-180	16c	B6495	300-675	33c
B6492	100-300	19c	B6496	325-850	38c
B6493	170-410	27c			

CONDENSER COUPLING

Bakelite insulated, flexible shaft coupling. Permits tandem operation of condensers, etc. For $\frac{1}{4}$ " shafts. Shpg. wt., 3 oz.



B4149.	NET	21c
B6116.	Ceramic Type Coupling. For $\frac{1}{4}$ " shafts.	NET.....27c

DIAL DRIVE RUBBERS

Box of 25 assorted dial-drive friction rubbers in eight different types. Used in such sets as RCA, Atwater Kent, Stewart Warner, etc. Wt., 1 lb.



B6107. NET.....84c

NON-SLIP DIAL COMPOUND

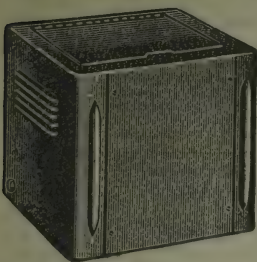
Specially made for aiding in repair of friction and cord driven dials. Prevents slipping. Comes in powder form and is easy to apply to slipping parts. This compound will save you time and money in dial repair work. Shpg. wt., 1 lb.



B6109. NET.....18c

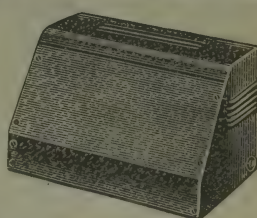
METAL CABINETS AND CHASSIS

ICA HINGED COVER STEEL CABINETS



A new ultra-modern streamlined cabinet. Beautifully designed to meet the most discriminating taste in this type of equipment. The cabinet has rounded corners with specially designed chrome-plated trim moulding on the front. Chrome-plated "Air Gate" ventilators on sides. The front panel is removable and fits flush with front of cabinet. The panel door provided on top of case hangs on a full-sized piano hinge. Modern grille-type ventilators are provided on the back panel which also has an opening on the bottom to allow for leads, cable connections, etc. Bottom has four embossed feet. Provides an attractive, professional-looking housing for all types of equipment. Available in four convenient sizes and chassis below. Finished in a beautiful gray ripple enamel. The standard cabinet is like the deluxe model except for chrome trim. Chassis bases are of one-piece steel, black ripple finished, drilled for bottom plates.

ICA DELUXE SLOPING PANEL CABINETS



Deluxe all-purpose cabinets designed for use by studios, laboratories, amateurs, etc. The top corners are rounded and trimmed with beautiful red striped chrome trim. The sides of the cabinet have the beautiful "Air Gate" chrome ventilators. The rear of the cabinet has louvered ventilators with openings at the bottom for various cable connections, leads, etc. The front panel is removable so that the chassis can be attached to it and used as one unit. All corners of this unit are reinforced. Cabinets and chassis are made of heavy-gauge steel. Provides an attractive professional appearance. Sloping panel housings are excellent for test equipment. Eye level controls can be installed, thereby permitting ease of operation and increased accuracy. An excellent housing for all types of portable equipment. Available in four convenient sizes with chassis to fit each unit as listed below. Finished in gray ripple. Chassis of heavy steel, black ripple finished, folded over on bottom for extra strength, and drilled to take bottom plates.

Deluxe		Standard		Size	Panel	Shpg.
No.	NET	No.	NET	H.L.D.	Size	Wt.
B15600	\$3.08	B15604	\$2.06	8x10x8"	8x8"	9 lbs.
B15601	3.23	B15605	2.20	8x12x8"	8x10"	10 lbs.
B15602	3.67	B15606	2.79	8x14x8"	8x12"	11 lbs.
B15603	5.73	B15607	5.14	12x20x12"	12x18"	17 lbs.

Cat. No.	Size	Shpg.	NET
	H.L.D.	Wt.	EACH
B15615	8x8x8"	9 lbs.	\$2.79
B15616	8x10x8"	10 lbs.	2.94
B15617	8x14x8"	11 lbs.	3.23
B15618	12x18x12"	17 lbs.	5.14

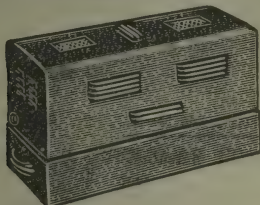
CHASSIS BASES FOR ABOVE

Cat. No.	H.L.D.	For Cabinet No.	Wt.	NET
B15610	2x7x7"	B15600	2 lbs.	53c
B15611	2x9x7"	B15601	2 lbs.	59c
B15612	2x13x7"	B15602	3 lbs.	71c
B15613	3x17x10"	B15603	5 lbs.	88c

CHASSIS BASES FOR ABOVE

Cat. No.	H.L.D.	For Cabinet No.	Wt.	NET
B15610	2x7x7"	B15615	2 lbs.	53c
B15611	2x9x7"	B15616	2 lbs.	59c
B15612	2x13x7"	B15617	3 lbs.	71c
B15613	2x17x10"	B15618	5 lbs.	88c

AMPLIFIER FOUNDATION UNITS



Clever design and styling are incorporated in this new line of professional type amplifier foundation units available at an amazingly low price. Top covers have rounded corners, and fronts are embellished with the newly created chrome plated "Air Gate" ventilators. Additional ventilation is obtained through the raised screen openings on the top as well as louvers on both sides and back. The unit is very simple to assemble. All parts are perfectly fitted. At the base, on either side, there is a full size handle. Build your amplifier in an up-to-date arrangement of metal parts that will add a great deal to the value of the finished product. The attractive red striped chrome mouldings and chrome handles give additional beauty to the appearance of the unit. A very sturdy and attractive case available in five convenient sizes. Finished in Marine gray ripple enamel. Each foundation unit is individually packed in corrugated carton, ready for immediate shipment.

Cat. No.	Case Size	Chas. Ht.	Shpg. Wt.	NET EACH
B15620	5 1/2 x 10 x 9"	3"	9 lbs.	\$2.65
B15621	8 x 12 x 9"	3"	10 lbs.	3.50
B15622	7 x 17 x 9"	3"	11 lbs.	3.50
B15623	10 x 14 x 9"	3"	11 lbs.	3.82
B15624	10 x 17 x 9"	3"	14 lbs.	4.09

CRYSTAL FINISHED CABINETS

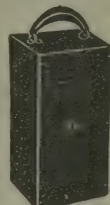


Sturdy steel cabinets with piano-hinged lids. Front panel, back panel or bottom can be removed for changing wiring without disturbing the rest of the cabinet. Supplied in knocked-down form for easy handling. Easily assembled. Finished in black ripple enamel.

Cat. No.	Size H.L.D.	Shpg. Wt.	NET EACH
B15650	6x9x5"	6 lbs.	\$1.45
B15651	7x10x8"	7 lbs.	1.85
B15652	10x10x8"	8 lbs.	2.10
B15653	7x12x8"	9 lbs.	2.13
B15654	8x12x11"	10 1/2 lbs.	2.43
B15655	7x14x8"	11 lbs.	2.35
B15656	9x18x12"	13 lbs.	3.42

PORTABLE STEEL CABINET

Ideal for housing oscillators, transceivers, test equipment, etc. Both front and back panels are removable and are held in place with self-tapping screws which are supplied. Entire cabinet is sturdily built of finest steel; has reinforced corners and edges. Supplied with a convenient leather carrying handle. The perfect housing for home-built portable equipment. Chassis listed below suitable for both sizes of cabinets. Finished in black ripple.



No.	H.L.D.	Wt.	NET
B15625	12x7 3/4 x 7"	9 lbs.	\$1.53
B15626	15x7 3/4 x 7"	11 lbs.	1.88

B15627. Chassis for above. 7 1/2 x 6 3/4 x 2 1/2". Shpg. wt., 3 lbs. NET.....27c

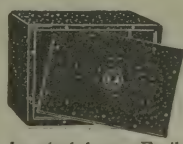
CHROMO-GRVURE METAL TRIM

A new material used to lend beauty and color to equipment. Made of sturdy striped Chromo-Gravure metal. Can also be engraved. Available in special sizes cut to your specifications at 2c per square inch. Minimum order, 75c net.

No.	Size	Wt.	NET
B15630	3x10"	1/2 lb.	38c
B15631	3x12"	1/2 lb.	44c
B15632	3x14"	3/4 lb.	53c
B15633	3x17"	1 lb.	65c
B15634	3x23"	1 1/4 lb.	88c
B15635	4x14"	1 lb.	71c
B15636	4x17"	1 1/4 lb.	88c

UTILITY METAL CABINETS

Cabinets have various uses such as housing input stages, mixers, transceivers, amplifiers, monitors, etc. Front and back covers are removable and can be fastened to cabinet with self-tapping machine screws. Units shipped knocked-down. Easily assembled. Black ripple enamel finish.



Cat. No.	Size H.L.D.	Shpg. Wt.	NET EACH
B15640	4x4x2"	1 lb.	\$0.53
B15641	3x4x3"	2 lbs.	.68
B15642	6x6x6"	3 lbs.	1.03
B15643	6x9x5"	4 lbs.	1.33
B15644	7x10x8"	5 lbs.	1.32
B15645	10x10x8"	6 lbs.	1.62
B15646	8x12x11"	8 lbs.	1.76

WRINKLE VARNISH

An attractive, modern wrinkle finish for all metal chassis, panels, etc. Air drying; easily applied with brush or spray. In six popular colors. Baking not required.



COLOR	1/2 Pint	1 Pint
Black	B1955	B1961
Brown	B1956	B1962
Green	B1957	B1963
Silver Gray	B1958	B1964
Red	B1975	B1976
Blue	B1977	B1978

1/2 Pint EACH.....24c Per Pint.....\$1.18

CRYSTALLINE LACQUER

Will cover any metal surface, wood or other material. Dries in 20 minutes. Easy to apply and requires no special equipment. Supplied in three colors.



COLOR	1/2 Pint	1 Pint
Black	B1950	B1951
Gray	B1960	B1945
Brown	B1952	B1947

1/2 Pint. Specify Color.....18c
1 Pint. Specify Color.....59c
1 Pint. Specify Color.....\$1.05

KROME KOAT ALUMINUM PAINT

Fast-drying ready-mixed aluminum paint of the very best quality. On drying, it leaves a smooth chrome-like finish. The best paint to use on PA equipment for outside work, for sound trucks, speakers, poles, radio towers, chassis, and all-around use. Can be used on metal or wood. Very simple to apply. Keep some handy for re-finishing or touching up equipment.



B1972. 1/2 Pint. NET.....15c
B1973. 1/2 Pint. NET.....47c
B1974. 1 Pint. NET.....88c

BULB COLORING KIT

Kit contains one bottle each: Green, Blue, Red, Brown; with bottle of solvent. Bulbs may be colored by dipping in bottle. B2998. NET.....27c



RACK AND PANEL HARDWARE

B4885. A handy assortment in convenient glass jar. Contains 20 each screws and washers. Screw size 10-32x 1/4". Polished nickel finish screws are oval-head type; washers are recessed. B4883. 10x32 Hex. nut assortment. 50 nuts. PER JAR.....22c

TUNING DIALS • PILOT LIGHTS

VALUES IN MODERN DIALS

NEW CROWE FREQUENCY MODULATION DIAL



A modern dial for F-M sets tuning from 42 to 50 MC. For $\frac{1}{4}$ " or $\frac{3}{8}$ " shaft. Uses cord drive. The pointer travels $5\frac{1}{4}$ " across the scale. For condensers. For condenser ratio is about 9:1 in 180 degree condenser rotation. Escutcheon is finished in antique bronze with Croglas crystal and $2 \times 5\frac{3}{4}$ " opening. Furnished with pilot light sockets. Shpg. wt., 2 lbs.

B4190. NET. \$2.59

STANDARD MODEL

This unit conforms to the dial described above; however, the dial is calibrated with standard scales covering the broadcast, shortwave and intermediate bands.

B4191. NET. \$2.59

CROWE 11" SLIDE-RULE DIAL



Calibrated for Broadcast, Short-wave, and Universal 0-100 bands in contrasting colors. Pointer travels 9" across the scale. 9:1 ratio in 180 degree rotation. For $\frac{1}{4}$ " or $\frac{3}{8}$ " shaft. Escutcheon opening, $2\frac{7}{8}" \times 9\frac{7}{8}"$ with Croglas crystal and antique bronze finish. With pilot light sockets. Shpg. wt., 3 lbs.

B4192. NET. \$3.76

5-INCH ULTRA-MODERN RADIO DIAL



Airplane-type dial with black figures on gold foil. Scale, $4\frac{1}{4}" \times 3\frac{1}{2}"$. Calibrated 0-100; 100 to 0; 0 to 10; 10 to 0. Ideal for general experimental use. 12 to 1 in 360°. Bronze escutcheon. Positive cord drive with take-up spring. For $\frac{3}{8}$ " or $\frac{1}{2}"$ shaft. With knob and light socket. Wt., 10 oz.

B4186. NET. \$89.



9 1/4" LONG SLIDE-RULE

A fine value in a new Slide-Rule dial, $9\frac{1}{4}"$ long $\times 5\frac{3}{8}"$ wide overall. Requires $4\frac{1}{8} \times 8\frac{1}{8}"$ opening. Universal scale calibrated in KC and MC. Has bushing to fit $\frac{3}{8}"$ or $\frac{1}{2}"$ shaft. 2 to 1 drive ratio. With escutcheon and 2 pilot light sockets. Wt., 2 lbs.

B4184. NET. \$2.65

KURZ-KASCH VERNIER DIALS



Always popular with builders and experimenters. Made of black bakelite. Universal scale reads 0-100-0. Smooth positive friction-drive action; no backlash. Fit $\frac{1}{4}"$ shaft. 4" dial has 13 to 1 ratio; 3" size has 9 to 1 ratio. Shpg. wt., 1 lb.

B6201. 4" Diameter. NET. \$45.

B6200. 3" Diameter. NET. \$38.

2 SPEED PLANETARY DRIVE



Used as auxiliary speed reducer on many controls. Mounts on condenser back of panel, or on dial knob shaft. Slow ratio 5 to 1; fast ratio 1 to 1. Fits $\frac{1}{4}"$ shaft.

B3756. NET. \$1.32

Knobs for Above. Set of 2. Large knob fits $\frac{7}{16}"$ high-speed shaft, small knob fits $\frac{1}{4}"$ low-speed shaft. Shpg. wt., 4 oz.

B3757. Walnut. } PER \$12.

B3758. Black. } SET

KNIGHT-CROWE SLIDE-RULE 4" RADIO DIAL



Beautiful Cro-Art Slide-Rule Dial. Has black figures on bronze background. Scales, 550 to 1700 KC and universal 0-100. For 180° rotation. Direct drive. Has a $\frac{1}{4}"$ diameter shaft on the pulley hub. Requires $1\frac{1}{2}" \times 3\frac{3}{4}"$ hole. With bronze escutcheon, crystal and pilot light socket. Wt. 1 lb.

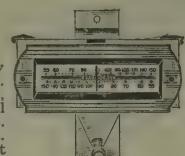
B4189. NET. \$95.

6 3/4" LONG SLIDE-RULE

Attractive, new dial, $6\frac{3}{4}"$ by $3\frac{3}{8}"$. Universal scale on gold face. 12 to 1 ratio drive. With escutcheon and pilot light socket. Fits either $\frac{3}{8}"$ or $\frac{1}{4}"$ shafts. Requires panel opening $2\frac{3}{4}" \times 5\frac{3}{8}"$. Shpg. wt., 2 lbs.

B4183. NET. \$2.06

MIDGET SLIDE-RULE



Compact new dial, only $4\frac{1}{4}" \times 2\frac{3}{8}"$ overall. Panel opening required, $1\frac{1}{8}" \times 3\frac{1}{2}"$. Universal scale; 8 to 1 drive ratio. Fits $\frac{3}{8}"$ or $\frac{1}{4}"$ shaft. Escutcheon and 2 light sockets are included.

B4179. NET. \$1.62

2 3/8" INCH AIRPLANE DIAL



A friction-drive dial with a tuning ratio of 4 to 1. Dual translucent dial calibrated with a universal scale, 0-100 and 100-0. With escutcheon, glass bezel and pilot light socket. Fits $\frac{3}{8}"$ or $\frac{1}{4}"$ shafts. Shipping wt., 1 lb.

B4177. NET. \$68.

3 1/8" INCH AIRPLANE DIAL



Positive-action, smooth-tuning dial. Dual translucent universal scale with glass bezel. Tuning ratio 6 to 1. Calibrated 0-100 and 100-0. Has bushing to fit $\frac{3}{8}"$ or $\frac{1}{4}"$ shafts. With pilot light socket and escutcheon. Wt., 1 lb.

B4182. NET. \$83.

B4181. 4" AIRPLANE DIAL. Similar to above but larger in size. Tuning ratio 9-1. Has two pilot light sockets. 2 lbs. **\$1.05 NET.**

B4177. 5 1/8" AIRPLANE DIAL. Like above. Ideal for console sets. Has 2 light sockets. Ratio, 11-1. Wt., 2 lbs. **\$1.39 NET.**

ICA MINIATURE DIALS



Beautiful chrome silver dials with black etched numerals. For instruments, amplifiers, receivers, etc. Equipped with finger grip black knob. Only $1\frac{1}{8}"$ diameter. Fit $\frac{1}{4}"$ shaft. Ranges from 0-10 over 180 or 270 degrees.

B5471. 0-10 in 180°. B5472. 0-10 in 270°. EACH. \$38.

1" 110 VOLT PILOT AND NEON LIGHT ASSEMBLY



Mounts in one inch hole. Use candelabra base, 110 V. bulb, B6465, 15c each. *Used with T4 $\frac{1}{2}$ inch bulb, B6457, 41c each. Chrome finish.

B6545. *Red B6547. *Green B6546. *Amber B6548. †Neon EACH \$54.

GENUINE G.E. MAZDA PILOT LIGHT BULBS



General Electric Mazda pilot light bulbs. Famous for quality. These lamps are made to operate on the voltages indicated. Excellent for all pilot lamp requirements. Will give long service in standard radio sets and devices.

Cat. No.	Lamp No.	Volts	Amps.	PRICE EACH	PER 10
B1250	41	2.5	.50	9c	\$0.54
B1252	43*	2.5	.50	9c	.54
B1251	42	3.2	.35	12c	.71
B1253	40	6.8	.15	9c	.54
B1257	50†	6-8	.20	10c	.69
B1258	51††	6-8	1.0	7c	.41
B1260	55††	6-8	.40	7c	.41
B1254	48	2.0	.06	15c	.88
B1259	49*	2.0	.06	15c	.88
B1255	44*	6.8	.25	9c	.54
B1256	46	6-8	.25	9c	.54
B1269	45*	3.2	.35	12c	.71
B1270	47*	6-8	.15	9c	.54

*Indicates miniature bayonet base. †Indicates small round bulb.

S11. A special 10 watt bulb designed for the RCA-VICTOR R-32. For use on 115 volts. **B6449. 10 for \$1.30 EACH. \$15c**

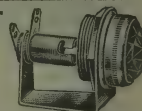


PILOT LIGHT SOCKETS

Miniature base pilot light sockets for all radio requirements. Bulbs not included. Wt., 4 oz.

B6380. Type A. B6381. Type B. B6382. Type C. B6378. Type D. Bayonet Shell Type. B6379. Similar to type D, but mounting clip reversed. **10 for 40c, 100 for \$3.50. EACH. \$5c**

1" JEWEL BRACKET



For transmitters, test equipment, etc. Standard bulb replaceable from front. $1\frac{1}{2}"$ long; requires 1 inch hole for mounting.

Color	Bayonet	Miniature	Candelabra*
Red	B6300	B6297	B6462
Green	B6301	B6298	B6463
Amber	B6302	B6299	B6464

*For 110 volt service. **NET EACH. \$54.** **B6465.** 110 V. bulb for candelabra. Ea. 15c

1/2" TYPE—MINIATURE SCREW BRACKET **B6294. Red. B6296. Amber. B6295. Green. NET EACH. \$24c**

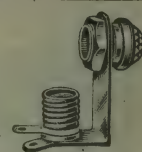
UNDERWRITERS' APPROVED TYPE

110 volt pilot light assembly. Porcelain and brass construction. 1" hole mounting. Bulb removable from front. Highly polished faceted jewel. Chrome finished jewel holder. Uses B6465, 110 volt Mazda bulb, 15c. Less bulb.



B6595. Red. B6596. Green. NET EACH. \$73c. B6597. Amber.

1/2" JEWELLED BRACKETS



Visual indicators for use on power amplifiers, relay racks, etc. Socket takes regular pilot light bulbs. Single hole mounting. Shows clearly when your equipment is "on." With jewel.

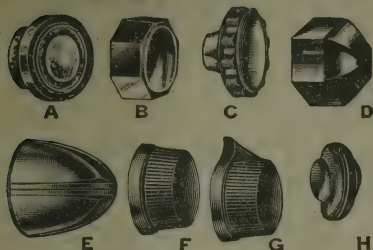
Miniature Base No.	Bayonet Base No.	Color	NET EACH
B6388	B6387	Red	10c
B6389	B6383	Green	
B6390	B6391	Amber	

JEWELS FOR PILOT LIGHTS

Require $\frac{1}{2}"$ hole. $\frac{7}{16}"$ thread shank. $\frac{3}{8}"$ long. **B6384. Red. B6386. Amber. B6385. Green. NET EACH. \$7c**

TUNING KNOBS and DIALS

FINE BAKELITE KNOBS FOR EVERY PURPOSE

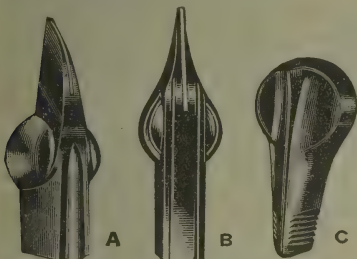


Durable bakelite molded knobs. Fit $\frac{1}{4}$ " shafts. There is a knob listed here for every radio requirement. Type "G" has pointer. Types B, D, F, and H are especially adaptable as midset set knob replacements. *For knurled shaft.

Cat. No.	Fig.	Diam.	Color	NET Each	10 FOR
B6206	A	1"	Walnut		
B6207	A	1 1/8"	Walnut	6c	45c
B6209	B	1 1/8"	Walnut		
B6210	B	1 1/8"	Walnut		
B6211	D	7/8"	Black		
B6160	E	3/4"	Black	5c	40c
B6170*	E	3/4"	Walnut		
B6161	E	3/4"	Walnut		
B6172*	E	3/4"	Walnut		
B6162	E	3/4"	Ivory	6c	45c
B6174*	E	3/4"	Ivory		
B6163	F	1 1/8"	Black	5c	40c
B6164	F	1 1/8"	Walnut		
B6166	G	1 1/8"	Black	5c	40c
B6167	G	1 1/8"	Walnut		
B6360	H	1 1/8"	Black		
B6351	H	1 1/8"	Ivory	8c	70c
B6352	H	1 1/8"	Red		
B3773	C	1 1/8"	Black	8c	70c
B3774	C	1 1/8"	Ivory		
B3775	C	1 1/8"	Red	5c	40c

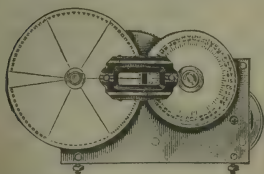
STREAMLINED BAR KNOBS

Modern black or red knobs for test instruments, amplifiers, etc. White engraved pointers (except Fig. C). Fit $\frac{1}{4}$ " shafts. Recessed set screws. Avg. shpg. wt., 8 oz.



Cat. No.	Fig.	Size	Color	NET Each	10 FOR
B3752	A	2"	Black	6c	45c
B3753	A	2"	Red	7c	60c
B3754	A	1 1/4"	Black	5c	40c
B3755	A	1 1/4"	Red	6c	45c
B3733	B	1 1/4"	Black	4c	35c
B3734	B	2 1/4"	Black	6c	45c
B3735	C	1 1/2"	Black	6c	45c
B3736	C	1 1/2"	Red	7c	60c

CROWE MATHEMATIC PRECISION TUNER



For fine tuning and accurate logging. May be connected to condenser shaft direct or through a flexible coupling. Takes standard $\frac{1}{4}$ " shaft set-screw type knob. Ratio of dial movement approximates 72 to 1 in a 360° movement. Gear driven movement with take-ups to prevent backlash. Two dial scales provide 600 graduations in 180° of tuning condenser rotation. Shpg. wt., 3 lbs.

B3699. NET. \$4.41



All have set screws and will fit $\frac{1}{4}$ " shafts. For use with midset sets. All are walnut-colored and beautifully made. Av. wt., 3 oz.

No.	Type	Diam.	EACH	10 FOR
B6202	A	1 1/4"	6c	45c
B6203	B	1 1/4"		
B6204	C	1 1/4"		
B6205	D	1 1/4"		

POINTER KNOB

Black $\frac{1}{4}$ " bakelite knob. Arrow engraved on face. Fits $\frac{1}{4}$ " shaft.

B6208. 10 FOR 50c. 6c



DELUXE BRASS DIAL PLATES

New type dial plate with single hole mounting. Beautiful brown enameled brass plate with Butler process finish; chrome plated, etched numerals. Size, $2\frac{1}{4} \times 1\frac{1}{2}$ ". Mtg. hole, $\frac{3}{8}$ " dia.

B5187. Plain 0-10.
B5188. Microphone 1.
B5189. Microphone 2.
B5190. Microphone 3.
B5191. Microphone 4.
B5192. Phonograph.
B5193. Dual Phonograph.
B5194. Micro-Phono.
B5195. Bass.
B5196. Treble.
B5197. Bass-Treble.
B5198. AVS-AVE.
B5199. Master.



NET EACH
12c

DIAL & JACK MARKERS



Fig. A. Tuning and Volume dial markers. Diameter $1\frac{1}{8}$ ". Bronze finish. Dial plate, graduated 0-100. Volume plate has etched arrow. Fig. B. Jack markers. Black with aluminum lettering. Hole diameter $\frac{1}{8}$ ".

Fig. A.
B5677. Tuning.
B5678. Volume.
 NET EACH.....**9c**



Fig. B.
B3685. Phones.
B3686. Microphone.
B2884. Off-On.
 NET EACH.....**7c**

PHOSPHOR BRONZE DIAL CABLE

42 Strand Cable is 6 individual cables each of 7 strands of phosphor bronze wire, around central linen core. 16 Braided Cable is 16 strands of fine bronze wire woven together.



Length	42 Stranded		16 Braided	
	No.	NET	No.	NET
5 ft.	B6070	\$0.19	B6074	6c
25 ft.	B6071	.70	B6075	22c
50 ft.	B6072	1.25	B6076	36c
100 ft.	B6073	2.25	B6077	54c

EXACT DUPLICATE DIAL CORDS

Exact duplicates of the originals in size, material, and design. We can supply any type of cable, band or belt on special order. Send in old dial cable, or state make and model of set. For a perfect fit, use exact duplicate cords. If replacement information or sample is not available, use dial cable listed above.

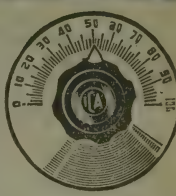
Stock No.	Model	NET
B6087.	35, 37	15c
B6088.	44	24c
B6089.	46	15c
B6090.	55	15c

B6095. No. 1—70, 71, 72.....**9c**
B6097. 52, 60.....**13c**
B6103. 180.....**15c**

Philco
B6098. All models using cords.....**13c**
RCA
B6100. 16, 17, 18, 33.....**15c**
B6101. 80, 82, 86.....**18c**

DIAL PLATES WITH KNOBS

Handsome, professional dial plates finished in silver-grain satin. Calibrations engraved in black. Calibrated 0 to 100. Fluted finger grip pointer knob fits $\frac{1}{4}$ " shafts. 325° ideal for volume controls. Wt., 1 lb.



2-INCH DIAL PLATES
B5670. 180 Degrees.
B5671. 325 Degrees. NET EACH.....**52c**

3 1/2-INCH DIAL PLATES
B5672. 180 Degrees.
B5673. 325 Degrees. NET EACH.....**71c**

4-INCH DIAL PLATES
B5674. 180 Degrees.
B5675. 325 Degrees. NET EACH.....**91c**

DIAL PLATES ONLY (LESS KNOB)

180 Degrees			325 Degrees		
No.	Dia.	NET	No.	Dia.	NET
B5741	2"	27c	B5744	2"	27c
B5742	3 1/2"	45c	B5745	3 1/2"	45c
B5743	4"	54c	B5746	4"	54c

FLUTED KNOBS

Molded of high quality black bakelite; for $\frac{1}{4}$ " shaft. Has an attractive, professional appearance. Fluted rim gives positive grip.

Fig A. Pointer Type
B5475. 1 1/8" NET...**23c**
B5476. 1 1/8" NET...**28c**
B5477. 2 1/8" NET...**34c**

Fig B. Flange Type
B5478. 2 1/8" NET...**28c**
B5479. 3" NET...**35c**

Fig A. Less Pointer
B5480. 1 1/8" NET...**16c**
B5481. 1 1/8" NET...**22c**
B5482. 2 1/8" NET...**27c**



VERNIER INDICATOR

Can be used on all chrome dial plates. Chromé silver.

B5531. NET.....**6c**



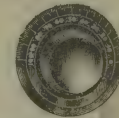
DIAL LOCK

Positive lock for any transmitter dial. Easily installed. Only one hole required.

B3740. NET.....**44c**

MOLDED DIALS

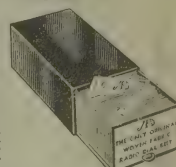
Attractive black bakelite dials with large calibrations in white. Easy-grip 2" knob on 3" dials, 2 1/2" knob on 4" dials. All types listed below fit $\frac{1}{4}$ " shafts. Shpg. wt., 8 oz.



3 INCH DIALS		4 INCH DIALS	
B4196.	0-100.	B4198.	0-100.
B4197.	100-0.	B4199.	100-0.
NET EACH.....	23c	NET EACH.....	26c

JFD DIAL BELT KITS

Kit of 100 includes JFD complete line of 90 different belts for over 1000 sets, including 1940 models; supplied with free attractive metal cabinet, 80-page book of full belt and ballast replacement data, and measuring chart. Kit of 25 contains one each of most popular numbers; supplied with free 80-page JFD Belt and Ballast Book. Shipping wts.: B6137, 4 lbs. B6136, 2 lbs.



B6137. 100 Assorted. NET.....**\$13.23**
B6136. 25 Assorted Belts. NET.....**\$3.67**

We can supply any single belt for 15c each. Order by JFD part number or send in the defective belt for duplication.

BRAIDED SILK DIAL CORD

Durable dial cable of pure braided silk, with water-proof finish. A real necessity for the well-stocked shop.

No.	Length	NET
B6080	5 ft.	\$0.22
B6081	25 ft.	.80



RADIO-BUILDERS' SUPPLIES



QUALITY METAL CHASSIS BASES

ALLIED now offers the most complete line of high quality chassis bases available anywhere. Each unit has four-inforced or spot-welded corners for heavy-duty service. All are folded on four sides with the exception of those marked *, which are folded on sides only, with ends open. Template is lead-coated auto-body steel; Cadmium-plated and Black wrinkle-finish bases are also steel. **B5288.** Volume Control Bracket for any Chassis Base. **NET..... 3c**

Size, Inches	Template		Electralloy		Cadmium-Plated		Wrinkle Finish	
	No.	NET	No.	NET	No.	NET	No.	NET
4 1/2 x 8 1/2 x 1 1/2 *	B15150	\$0.29	B15020	\$0.64	B15182	\$0.40	B15188	\$0.40
5 x 9 1/2 x 1 1/2 *	B15167	.32	B15175	.66	B15182	.45	B15188	.45
5 x 9 1/2 x 3	B15168	.34	B15176	.70	B15184	.47	B15190	.47
5 1/2 x 10 x 3	B15169	.36	B15177	.75	B15185	.48	B15191	.48
6 x 13 x 3	B15170	.42	B15178	.85	B15186	.40	B15192	.40
7 x 7 x 2	B15171	.32	B15179	.68	B15035	.45	B15053	.45
7 x 9 x 2	B15151	.36	B15021	.76	B15036	.50	B15054	.50
7 x 11 x 2	B15152	.40	B15022	.85	B15037	.55	B15055	.55
7 x 12 x 3	B15153	.44	B15023	.97	B15038	.57	B15056	.57
7 x 13 x 2	B15154	.46	B15024	.99	B15039	.57	B15057	.57
7 x 17 x 3	B15155	.46	B15025	1.15	B15040	.75	B15058	.75
7 x 23 x 3	B15156	.56	B15026	1.27	B15041	.72	B15059	.72
8 x 17 x 2	B15157	.59	B15027	1.20	B15042	.66	B15060	.66
10 x 11 x 2 1/2	B15158	.48	B15028	1.05	B15043	.68	B15061	.68
10 x 12 x 3	B15159	.51	B15029	1.12	B15044	.73	B15062	.73
10 x 14 x 3	B15160	.52	B15030	1.20	B15045	.80	B15063	.80
10 x 17 x 3	B15161	.61	B15031	1.45	B15046	.81	B15064	.81
10 x 23 x 3	B15162	.71	B15032	1.69	B15047	1.13	B15065	1.13
13 x 17 x 3	B15163	.71	B15033	1.72	B15048	1.08	B15066	1.08
12 x 17 x 3	B15164	.69			B15049	.95	B15067	.95
10 x 17 x 4	B15165	.69			B15050	1.25	B15068	1.25
13 x 17 x 4	B15166	.76						

PANELS FOR ALL RADIO PURPOSES

Sizes not listed will be cut to order (see prices below). Electralloy and Aluminum panels are 1/16" thick and have natural finish; Bakelite panels are 3/16" thick and have polished finish. Finished panels are 1/16" steel with black wrinkle enamel finish; 1/16" Masonite panels in natural black; 3/16" Masonite finished in baked black ripple. Stock on hand always.

Size In.	Electralloy		Aluminum		Bakelite		Finished		1/16" Masonite		3/16" Masonite	
	No.	NET	No.	NET	No.	NET	No.	NET	No.	NET	No.	NET
7 x 10	B15080	\$0.40	B15100	\$0.39	B15122	\$0.78	B15093	\$0.32	B15135	\$0.26	B15115	\$0.32
7 x 12	B15081	.45	B15101	.49	B15123	.99	B15094	.38	B15136	.30	B15116	.38
7 x 14	B15082	.53	B15102	.58	B15124	1.14	B15095	.44	B15137	.34	B15117	.44
7 x 16	B15083	.59	B15103	.70	B15125	1.27	B15096	.59	B15138	.38	B15118	.59
7 x 18	B15084	.65	B15104	.78	B15126	1.39	B15097	.76	B15139	.43	B15119	.68
7 x 21	B15085	.78	B15105	.83	B15127	1.58			B15140	.48	B15120	.68
7 x 24	B15087	.99	B15107	.94	B15128	1.84	B15098	.59	B15141	.47		
8 x 18	B15089	.77	B15109	.89	B15130	1.55	B15099	.56	B15142	.47		
9 x 16	B15090	.70	B15110	.82	B15131	1.44	B15099	.56	B15145	.46		

Special Sizes 1C SQ. IN. 1C PER SQ. INCH 1 1/2C PER SQ. INCH 1/2C PER SQ. INCH

Orders for Special Panels must amount to a 75c minimum; Masonite to 50c.

GRID CAPS

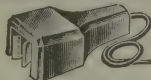


STANDARD

Type A is for standard tubes; Type B is for metal tubes.

B6334. Type A. **B6335.** Type B. **EACH... 1c**
12 FOR... **6c**

AMPHENOL COMBINATION



Cap for glass or metal tubes.
B456A. Unwired. **9c**
B456B. With 15" wire lead. **12c**

INSULATED

Well-made spring clips. Colored composition insulation. Have 12-inch wire leads. Will fit all glass tubes. Positive contact.

Standard **For 866 Tube**

B6330. Red. **B6332.** Red. **EACH... 45c**
B6331. Black. **B6333.** Black. **EACH... 81c**
10 FOR... 5c **10 FOR... 81c**

METAL TUBE GRID SHIELD

Fits firmly over top of all metal type tubes. Slot provided for grid lead.
B5290. **EACH... 4c**
Per Dozen **36c**

BAKELITE TUBING

High-grade smooth polished bakelite tubing. 1/16 inch wall thickness.

No.	Outside Dia.	Per Ft.	Per Inch
B6550	1"	34c	3c
B6551	1 1/2"	45c	4c
B6552	2"	55c	5c
B6553	2 1/2"	63c	6c
B6554	3"	76c	7c
B6555	3 1/2"	86c	8c

FENOLINE TUBING

Small diameter Fenoline tubing of finest quality. Black polished finish. Moisture-proof. Easy to cut. All sizes have 1/16" wall.

No.	O. D.	Per Ft.
B6467	1/2"	39c
B6468	3/8"	32c
B6469	1/4"	25c
B6470	3/16"	25c

COIL DOPE

This Meissner High "Q" RF lacquer coating assures permanently efficient coils. Quick drying. 2 oz. can.

B7522. **NET... 29c**

B7521. Thinner. **NET... 18c**

GRILL CLOTH

Fine tawesty material; interwoven black and gold design. Specify size. Furnished only in 1, 2, 3, or 4 ft. widths, any length.
B2916. Square Foot... **9c**

COIL SHIELDS

Aluminum shields with detachable base permitting easy removal of top.

B5723. 2 1/4" x 3". **12c**
B5724. 2 1/2" x 3 1/2". **NET EACH... 12c**
B5715. SPECIAL VALUE. 1 1/2" x 2 1/2" long. **10 FOR 23c. EACH... 3c**



SWITCH LOCK

For automobile radios, amplifiers, portable equipment, etc. Key withdraws only in locked position. Nickel-plated, 3/4 inch body diameter. With two keys. 8 oz. **47c**
B2905. **NET... 47c**

ROTARY SWITCH

Single pole canopy type; 1/4" shank. Has brown bakelite knob and 6" leads. Rated 1 amp. 250 volts. A convenient switch for numerous applications. Wt., 6 oz.
B5559. 10 FOR \$1.89. **NET EACH... 21c**

YAXLEY NO. 10 MIDGET JACK SWITCH

A handy, compact single-pole, single-throw jack switch with "on-off" plate, black bakelite knob, and metal pointer. 7/16" diameter single hole mounting on panels up to 1/4" thick. Wt., 6 oz.
B1990. **NET... 29c**

FORM-FITTING TUBE SHIELDS

For ST12 Bulbs

Body consists of two snug-fitting half shields with cap and base assuring perfect fit. A clamp and grounding clip furnished for large bulbs.

B5255. For short tubes with grid caps, as 1A6, 2A7, 3B, 75, 89, 6A7, 36, 39, 77, 78, 85, etc.
B5256. For short tubes, without grid caps, as 1B5, 1-V, 6Z5, 19, 27, 30, 31, 37, 56, 76, etc.
B5257. For long tubes with grid caps, as 6C6, 6D6, 57, 58, etc.
LOTS OF 10... 45c. EACH... 5c

For S14 and ST14 Bulbs

B5253. For S14 straight side tubes such as 2A4, 27, 32, etc.
B5254. For ST14 dome-shaped tubes such as 2A4, 32, 35, 2A5, 01A, 26, 45, etc.
NET EACH... 5c
LOTS OF 10... 45c

VENTILATED 3 PIECE SHIELD

For ST12 bulbs, such as 55, 57, 2A7, etc. Made of aluminum; well-ventilated. Shell measures 1 1/4" dia., 3 1/2" high, 4 1/2" overall. Cap slotted for grid lead.

No. Mgt. Centers **EACH**
B5260 12 1/2" **7c**
B5261 1 1/2" **7c**
B5262 1 1/4" **7c**

10 for 65c. 100 for \$6.25

GT AND BATTERY TUBE TYPE SHIELDS

B5285. One piece less cap for all GT type tubes. **21c**
EACH... 21c
10 FOR... 20c

B5284. Grounding clip for use with above shield on bakelite based tubes. **1c**
10 FOR 6c. EACH... 1c

B5286. Tall shield with cap base and ground clip for T9 battery type tubes. **5c**
10 FOR 45c. EACH... 5c

B5283. One piece less cap for Loktal base tubes. **21c**

KNIFE SWITCHES

BAKELITE For panel or base mounting. Nickel-plated blades and contacts.

B6515. SPST 1/2" x 1 1/4". **9c**
B6516. SPDT 1/2" x 1 1/4". **15c**
B6518. DPST 1/2" x 1 1/4". **21c**
B6517. DPDT 1/2" x 1 1/4". **24c**

PORCELAIN TYPES

Compact midjet knife switch base. Glazed porcelain base; screw terminals.

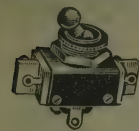
B6535. SPST 1" x 2 1/4". **9c**
B6536. SPDT 1" x 2 1/4". **11c**
B6537. DPST 1 1/2" x 1 1/4". **17c**
B6538. DPDT 1 1/2" x 2 1/4". **19c**
B6539. 3 PDT 2 1/4" x 2 1/4". **49c**

TEST BUZZER BUTTON

Pearl button is held in 5/8 in. hole by spring clasp. Has many applications. Wt., 4 oz.
B3977. 10 FOR 89c. **10c**
EACH... 10c

Quality Radio SWITCHES for all Purposes

H&H TOGGLE SWITCHES



Underwriters' approved; rated at 3 amps.—125 V., 1 amp.—250 V. Oxidized black finish. Threaded stem. 1/2" dia. Supplied with two lock-nuts.

SINGLE POLE SINGLE THROW (2 LUGS)				
No.	Stem	EACH	PER 10	
B5450	3/8 in.	17c	\$1.53	
B5451	1/2 in.	19c	\$1.71	
B5452	1 in.	20c	\$1.80	

SINGLE POLE DOUBLE THROW (3 LUGS)				
No.	Stem	EACH	PER 10	
B5453	3/8 in.	21c	\$1.89	
B5454	1/2 in.	23c	\$2.07	
B5455	1 in.	24c	\$2.16	

DOUBLE POLE SINGLE THROW (4 LUGS)				
No.	Stem	EACH	PER 10	
B5456	3/8 in.	30c	\$2.70	
B5457	1/2 in.	32c	\$2.88	
B5458	1 in.	30c	\$2.70	

DOUBLE POLE DOUBLE THROW (6 LUGS)				
No.	Stem	EACH	PER 10	
B5459	3/8 in.	35c	\$3.15	
B5460	1/2 in.	37c	\$3.33	
B5461	1 in.	38c	\$3.42	

SWITCH PLATES



B5467, Fig. A. An "on-off" plate for any toggle switch. Has 1/2" shaft hole; brown finish. **EACH... 2c**

B54107, Fig. B. This plate is finished in etched aluminum with black background. Dia., 1 1/8". **EACH... 7c**

H&H ROTARY SWITCHES



Positive contact rotary type power switches rated at 3 amps.—125 V., 1 amp.—250 V. Steel-cased. Shaft is 1/8" long, 1/4" diameter. Threaded 3/16" diameter stems for panel mounting. With locknuts. Underwriters' approved.

B5466, S.P.S.T. 1/4". Stem. 10 for \$1.35. **EACH. 15c**

B5462, S.P.S.T. 3/8". Stem. 10 for \$1.44. **EACH. 16c**

B5463, S.P.D.T. 3/8". Stem. 10 for \$1.89. **EACH. 21c**

B5464, D.P.S.T. 3/8". Stem. 10 for \$2.88. **EACH. 32c**

B5465, D.P.D.T. 3/8". Stem. 10 for \$3.33. **EACH. 37c**

PUSH-BUTTON STYLE



SPST metal plunger type. Press plunger to close circuit; press again to open. Will handle 6 amps. at 125 V. Threaded 1/2" dia. stem 1/2" long with lock nuts. Wt., 3 oz.

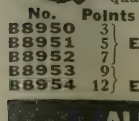
B5720, EACH... 22c

B5721, Red. EACH... 29c

B5722, Black. EACH... 29c

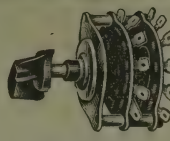
10 FOR... \$2.60

INDUCTANCE SWITCHES



Compact switch used in test equipment, etc. Nickel-plated type with pointer knob. 1/2 in. hole mtg. Of fine quality. Wt., 4 oz.

No.	Points	EACH	
B8950	3		
B8951	5		
B8952	7		
B8953	9		
B8954	12		



YAXLEY GANG SWITCHES

For test equipment and general radio and laboratory work. Have 1 fixed and 1 adjustable stop, laminated bakelite insulation, and phosphor-bronze springs. 2 gang switches are spaced 1/2"; 3 gang are spaced 1". Notched 2" shaft is easily shortened. Require 3/8" mounting hole. Complete with bar knob, but less dial plate. Wt., 12 oz.

Shorting		Non-Shorting		Gangs	Poles	Contacts	NET EACH
No.	Type	No.	Type				
B11950	1216L	B11955	1316L	1	1	1-6	\$0.59
B11951	1211L	B11956	1311L	1	1	1-11	.68
B11952	1215L	B11957	1315L	1	2	1-5	.73
B11953	1213L	B11958	1313L	1	3	1-3	.79
B11954	1212L*	B11959	1312L*	1	4	1-2	.85
B11960	1226L	B11965	1326L	2	2	1-6	\$0.94
B11961	1221L	B11966	1321L	2	2	1-11	1.03
B11962	1225L	B11967	1325L	2	4	1-5	1.18
B11963	1223L	B11968	1323L	2	6	1-3	1.23
B11964	1222L*	B11969	1322L*	2	8	1-2	1.32
B11940	1236L	B11943	1336L	3	3	1-6	\$1.29
B11941	1231L	B11944	1331L	3	3	1-11	1.38
B11942	1235L	B11945	1335L	3	6	1-5	1.47

*Have a third or "off" position with all circuits open.

YAXLEY SINGLE GANG SWITCHES



The Yaxley types 3100J and 3200J series of switches. Designed for short-wave, tone control, and tap switch requirements; non-shorting types for test equipment service. Have 2" notched shafts; silver contacts; 3/8" threaded bushing. With bar knob and mounting nut. All 1 1/4" base dia. types have adjustable stops. Wt., 8 oz.

Shorting		Non-Shorting		Pole	Pos.	Base Dia.	NET EACH
No.	Type	No.	Type				
B13020	3115J	B13100	3215J	1	1-5	1 1/4"	44c
B13021	3112J	B13101	3212J	1	1-12	1 1/4"	
B13022	3122J	B13102	3222J	2	1-2	1 1/4"	
B13023	3123J	B13103	3223J	2	1-3	1 1/4"	
B13024	3126J	B13104	3226J	2	1-6	1 1/4"	53c
B13025	3134J	B13105	3234J	3	1-4	1 1/4"	
B13026	3142J	B13106	3242J	4	1-2	1 1/4"	
B13027	3143J	B13107	3243J	4	1-3	1 1/4"	
B13028	3117J	B13108	3217J	1	1-17	1 1/4"	79c
B13029	3129J	B13109	3229J	2	1-9	1 1/4"	79c
B13030	3136J	B13110	3236J	3	1-6	1 1/4"	88c
B13031	3163J	B13111	3263J	6	1-3	1 1/4"	88c

YAXLEY SWITCH PLATES FOR ABOVE



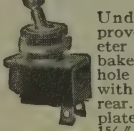
For switch, tone or volume control. Aluminum figures on black. 1/8" center hole. For 1 1/4" base diameter switches except 1 to 17. Please specify marking and stock number. (†For either 1 1/4" or 1 1/8".)

Marking	Marking	Marking	Marking
*0 to 100	†1 to 6	1 to 12	Off—1 to 7
1 to 2	1 to 7	1 to 17	Off—1 to 8
†1 to 3	1 to 8	†Off—1 to 3	†Off—1 to 9
1 to 4	†1 to 9	Off—1 to 4	Off—1 to 10
1 to 5	1 to 10	Off—1 to 5	Volume
	1 to 11	†Off—1 to 6	

B13035. For 1 1/4" Switch Base Diameter.
B13036. For 1 1/8" Switch Base Diameter.
(*Net price, 15c) ALL OTHERS, EACH... 9c

CUTLER-HAMMER SWITCHES

TOGGLE



Underwriters' approved. 1 1/2" diameter threaded stem; bakelite base. One-hole mounting type with solder lugs at rear. Heavy nickel-plated finish. Stem is 1 1/2" long. With nuts.

B13043. S.P.S.T. 3 A. 250 V. 10 for \$1.53. **EACH. 17c**

B13044. S.P.D.T. 2 A. 250 V. 10 for \$1.89. **EACH. 21c**

B13045. D.P.S.T. 3 A. 250 V. 10 for \$2.70. **EACH. 30c**

B13046. D.P.D.T. 3 A. 250 V. 10 for \$3.15. **EACH. 35c**

"ON-OFF" PLATES

Nickel-plated "on-off" switch plate for above switches. Clearly etched.

B13047. 10 for 12c. NET EACH... 2c

POWER



SPST power switches. Rated at 250 V. Bakelite housing. One hole mounting. 1 1/2" bushing. End screw terminals. Heavy nickel finish.

B13041. 6 Amps. 10 for \$3.20. EACH... 35c

B13042. 10 Amps. 10 for \$5.45. EACH... 59c

3-POSITION SWITCH

S.P.D.T. switch with off position in center. Rated at 3 A., 125 V. A.C. 1/2" bushing. Screw terminals. One hole mounting. A fine quality switch.

B13048. 10 for \$1.80. NET EACH... 20c

FEDERAL ANTI-CAPACITY SWITCHES

Improved type anti-capacity switches; with efficient new springs and contacts of silver-plated phosphor bronze; Phenol insulation. **B4155. D.P.S.T. EACH**
B4156. D.P.D.T. \$1.65
B4157. 4 P.D.T. \$1.90

PUSH-BUTTON TYPES

Have cadmium-plated springs and bakelite knobs. 3/8" hole mounting. Locking type makes contact with knob pushed in. Non-locking type opens when knob is released. Wt., 5 oz.

Locking Type	Type	Non-Locking	NET EA.
B8960	SPST	B8964	53c
B8961	DPST	B8965	70c
B8962	SPDT	B8966	59c
B8963	DPDT	B8967	88c

CENTRALAB SWITCHES

LEVER-ACTION



Low-capacity silver-plated contact points. 1 1/2 x 1 1/2 x 3/4". *Spring action return from either side. †Positive spring action to mid-position from one side only and spring return. Others, positive action in all positions. Shpg. wts. 4 oz. Use plates below.

Poles	Positions	Shorting Types	Non-Shorting
2	3	1452	1454
2	3*	1453	1455
2	3†	1466	1467
4	2	1456	1458
4	2*	1456	1457

B3930. Specialty Type. EACH... 59c

AC SNAP SWITCHES

Lever action, use plates below.
B3931. SPST. EACH... 35c
B3932. DPST. EACH... 44c

PLATES FOR ABOVE

Neat black crackle-finished plates for vertical mount.
B2095. For 1 Switch... 12c
B2096. For 2 Switches... 18c
B2097. For 3 Switches... 21c
B2098. For 4 Switches... 26c
B2099. For 5 Switches... 29c

ROTARY AND TONE SWITCHES

Compact and sturdy rotary type switches in molded bakelite cases. Underwriters' approved. Type 1449 Tone Switch has three positions: one pole for AC line switch operates off-on-on; second pole for tone control operates off-on-off. Type 1465 has AC snap switch attached. All switches furnished with long shaft. Wt., 3 oz.

Cat. No.	Mfr. No.	Type	NET EA.
B3935	1447	S.P.S.T.	29c
B3936	1448	D.P.S.T.	35c
B3937	1449	Tone Type	35c
B3938	1465	S.P. 4 Pos.	59c

TONE SWITCHES

Shorting type contacts. Rating, 1 amp. at 6 volts. Steel shaft 1/4" x 2 1/4" may be cut to any length; milled flat. Use in any circuit.

B3270. Type 1460. SPDT or SPST. 1x1 1/4". S.P. 3T. 1 1/2 x 1 1/2". EACH. 29c

B3271. Type 1461. S.P. 3T. 1 1/2 x 1 1/2". EACH. 29c
B3272. Type 1462. DPDT. 1x1 1/2". NET... 35c

SOCKETS • PLUGS • CONNECTORS



QUALITY SOCKETS

Used in test instruments, amplifiers and quality receivers. Molded black bakelite, with phosphor bronze contacts.



REPLACEMENT SOCKETS

Molded high-dielectric bakelite. Special universal adapter plate permits quick replacement of any wafer socket. These sockets may be mounted in any position. Mtg. centers 1½" to 1¾". Wt., 4 oz.

No.	Prongs	EACH
B4524	4	7c
B4525	5	
B4526	6	
B4527	7S	
B4528	7M	9c
B4529	7S-7M	
B4530	8 Octal	11c
B4540	8 Loktal	
B4531	9	

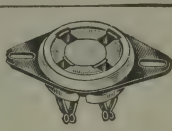


"MIP" SOCKETS

Cadmium steel plate molded in bakelite. 1½" mtg. centers.

No.	Prongs	Each
B4506	4	6c
B4507	5	
B4508	6	
B4509	7S	7c
B4510	7M	
B4511	8 Octal	10c
B4512	8 Loktal	
B4513	9	9c
B4513	11	12c

B4568, Super MIP U.H.F. Octal Socket. NET.....24c
B4624, Low-Loss Loktal. 18c
B4623, UHF Loktal.....26c



CHASSIS TYPE

For chassis hole mounting. Steel locking ring. Molded bakelite with cadmium-plated contacts. With mounting clip. 1¾" diameter. 3 oz.

No.	Prongs	EACH
B4532	4	6½c
B4533	5	
B4534	6	
B4535	7S	
B4536	7M	8c
B4537	Comb.	
B4538	Octal	10c
B4539	9	10c
B4625	For Loktal	10c
Tubes.....		

STEATITE

Molded from a new ultra-low-loss glazed steatite. Contacts are separated by raised barriers. Universal steel mounting plate. High quality sockets for short wave transmitters, etc. Withstand extreme temperatures. Mtg. centers 1½" to 1¾". 5 oz.

No.	Prongs	EACH
B4541	4	24c
B4542	5	
B4543	6	24c
B4544	7S	
B4545	7M	29c
B4547	8 Octal	24c

TOP CHASSIS

Mounted in heavy aluminum shell, which raises socket 1¾" above sub-panel and shields socket connections. 4 wiring entrances. Reverse for below-chassis mtg. 6 oz.

No.	Prongs	EACH
B4522	4	12½c
B4523	5	
B4548	6	14c
B4549	7S	
B4626	7M	16c
B4627	7S	
B4628	8	
B4629	9	

"BUTTON" TUBE SOCKET



For miniature tubes. Type 78-TP and 54-TP Ultra H.F. for RCA 7-prong 1R5, 1S4, 1S5, 1T4. Type 78-5H for Hytron Bantam Jr. With snap-on mounting ring. Mounting ¾" hole. *For Raytheon CK501, 2, 3, 4 series. EACH

B4089, 78-TP.....	10c
B4086, 54-TP.....	21c
B4569, 78-5H.....	10c
B4087, *78-5P.....	



AMPHENOL AC PLUGS AND RECEPTACLES

Molded bakelite. Fig. A mounts with retainer ring. Fig. B has mtg. plate. *Are polarized.

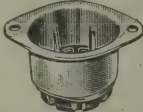
No.	Fig.	Type	NET
B4077	A	Male	15c
B4078	A	Male*	
B4079	A	Female	16½c
B4080	B	Male	
B4081	B	Male*	
B4082	B	Female	



SHIELDED CONNECTORS

Provide perfect electrical shielding. Steel snap caps. 1¼ x 1¼".

MALE		FEMALE	
No.	Prongs	No.	Prongs
B1630	4	B1635	4
B1631	5	B1636	5
B1632	6	B1637	6
B1633	7S	B1638	7S
B1634	8 Octal	B1639	8 Octal
NET EACH	15c	NET EACH	15c



Set in drawn steel, burnished nickel-plated shell. Overall shell dia. 1¾". Mtg. centers 1¼".

No.	Type	NET
B4083	Male	24c
B4084	Male*	
B4085	Female	

PLUGS FOR ABOVE

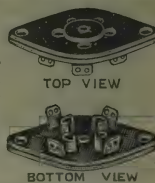
Metal-encased bakelite connectors with cable clamp. For plugging into all above AC receptacles, or to connect 2 cables.

B1625, Standard Male.	24c
B1627, Polarized Male.	
B1626, Female.	
NET EACH.....	

B1629, 9 Prong Male.....17c
B1624, 11 Prong Male.....21c
B1640, Locking Type Metal Sleeves; slip over connectors. Set of 2 pieces.....15c
B1783, Chassis Type Metal Sleeves. Set of 2 pieces.....15c

OAK TYPE WAFER SUB-PANEL SOCKETS

High grade wafer type sub-panel tube sockets of laminated bakelite construction. Sturdy and reliable with fully insulated top. Contacts are full-floating type, self-aligning, and of one piece construction for low resistance connection; make side-wiping contact with tube prongs. Center rivet securely holds laminations together. Order a supply for general replacement or set-building. 3 oz.



STANDARD SIZE

No.	Prongs	EACH	PER 10
B4020	4	5c	45c
B4021	5		
B4022	6		
B4023	7M		
B4024	7S		

MIDGET SIZE

No.	Prongs	EACH	PER 10
B4026	4	5c	45c
B4027	5		
B4028	6		
B4029	7M		
B4030	7S		
B4025	Loktal		

FOR ALL OCTAL BASE TUBES

B4031. Similar to sockets above but has 8 holes to fit octal base glass and metal tubes. 1½" mounting centers.

B4060, "Button" Type Wafer Socket for RCA miniature 7-contact tubes: 1R5, 1S4, 1S5, 1T4. ¾" mtg. ctrs. 10 for 45c. NET EACH.....5c

EBY SOCKETS



One-piece black bakelite construction. Sturdy contact guides. 11½" mounting centers. Genuine Eby Type 12. Shpg. wt., 6 oz. ea.

No.	Prongs	EACH
B4000	4	18c
B4001	5	
B4002	6	24c
B4004	7M & 7S	
B4006	8 Octal	

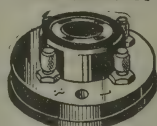
INSULEX SOCKETS



Low-loss glazed insulex. Sturdy, re-enforced spring contacts. Centers, 1½". Shpg. wt., 8 oz. ea.

No.	Prongs	NET EACH
B5330	4	25c
B5331	5	
B5332	6	
B5333	7S	
B5334	8 Octal	10 for \$2.25

BASE MOUNT SOCKETS



A molded bakelite socket for panel or baseboard mounting. Rugged contacts. 1½" diameter.

With nickel-plated binding posts.

No.	Prongs	EACH	PER 10
B4515	4	21c	\$1.95
B4516	5		
B4517	6		
B4518	7M		
B4519	7S	21c	\$1.95
B4520	8 (Octal).		

HEAVY-DUTY RUBBER-HANDLE PLUGS

Molded bakelite plugs and sockets mounted in unbreakable rubber handles. For use on speakers, power packs, or equipment using multi-conductor connecting cable. Hollow, tinny prongs for individual wires in cable. 2½" handles.

PLUGS		SOCKETS	
No.	Prongs	No.	Prongs
B4035	4	B4040	4
B4036	5	B4041	5
B4037	6	B4042	6
B4039	7S	B4043	7M
		B4044	7S
NET EACH.....	15c	NET EACH.....	23c

2-PIECE CONNECTORS

Connectors of two piece molded bakelite construction. Sure grip handles; sturdy contacts and pins. For speakers, microphones, etc.

MALE		FEMALE	
No.	Prongs	No.	Prongs
B1807	4	B1813	4
B1808	5	B1814	5
B1809	6	B1815	6
B1810	7M	B1816	7M
B1811	7S	B1817	7S
B1812	8 (Octal)	B1818	8 (Octal)
NET EACH.....	18c	NET EACH.....	24c

BAKELITE MALE CONNECTOR PLUG

A sturdy, neat, two piece molded bakelite connector plug for speaker connections, etc. Top unscrews.

No.	Prongs	EACH
B1800	4	15c
B1801	5	
B1802	6	
B1803	7M	
B1804	7S	
B1805	8 (Octal)	

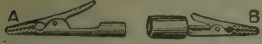
HOWARD B. JONES PLUGS AND SOCKETS

Multiple contact plugs and sockets of molded bakelite with metal caps and adjustable cable clamps. Popular for Public Address use. 8 oz.

Plugs			Sockets		
Contacts	No.	NET	No.	NET	
2	B1876	20c	B1883	20c	
3	B1877	21c	B1884	21c	
4	B1878	22c	B1885	22c	
6	B1879	26c	B1886	26c	
8	B1880	29c	B1887	29c	
10	B1881	33c	B1888	33c	
12	B1882	36c	B1889	41c	

PLUGS · JACKS · POSTS · CLIPS

ALLIGATOR CLIPS



Long thin-nosed clips. Powerful grip. Banana plug fits back of clip. Insulated type available with red or black handle. *Deluxe type with sturdy brass insert.

B6317. FIG. A. 2" long.
Per Doz., 36c.
100 Lots, \$2.80.
NET EACH.....4c

FIG. B. 2 1/4" INSULATED
B6337. Red.
B6338. Black.
Per Doz., 78c. **EACH.....7c**

B. 2 3/8" FOR PHONE TIPS*
B6428. Red.
B6429. Black.
Per Doz. \$1.56. **EACH. 14c**

COLOR TIP JACKS



Insulated. Held in 3/8" hole by retainer ring.
B6540. Red.
B6541. Black.
B6542. Green.
B6543. Blue.
NET EACH.....4 1/2c

BINDING POSTS

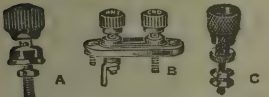


FIG. A. EBY JUNIOR. Has non-removable screw-type engraved top. 1/2" dia. Screw is 6-32x1/2" long. Supplied with handy soldering lug. Shpg. wt., 4 oz.

B4056. Plain. B4053. Out-
B4050. Ant. put.
B4051. Gnd. B4054. +
B4052. Input B4055. -
Per doz., 99c.
EACH.....9c

FIG. B. EBY TWIN assembly. Standard Ant. and Gnd. posts mounted on bakelite base or laminated strip. 2"x3/8" base.
B4058. Bakelite.....24c
B4059. Laminated.....18c

FIG. C. COMBINATION PLUG AND TIP JACK. Top takes banana plug; shank accommodates phone tip or wire.
B6325. Red.
B6326. Black.
Per Doz., 74c. **EACH.....7c**

TWIN JACKS



FIG. A. LAMINATED TYPE

Laminated bakelite construction. Ideal for headphone, phonograph, or speaker connections. 2"x3/8".
B4061. Speaker.
B4062. Phono.
B4063. Plain.
10 FOR 45c. **EACH.....5c**

TRIPLE LAMINATED JACKS

For microphones, speakers, etc.
B4068. Plain.
10 FOR 61c. **EACH.....7c**

FIG. B. MOLDED TWIN JACKS. Have single mounting screw molded into bakelite. Size, 2"x3/8". For cord tips. Wt., 2 oz.
B4064. Speaker.
B4065. Phono.
B4066. Plain. EACH.. 15c

SHORTING TYPE JACKS

Circuit closes when tips are removed. Adapted for analyzer construction. Similar to Fig. B. Single mounting stud. 2 oz.
B4067. NET.....17c

VALUES IN POPULAR PHONE PLUGS



MIDGET PHONE PLUGS

For use where space is limited in compact radios, P.A. systems, etc. 2 1/4" long overall; barrel dia. 3/16".
B5737. Black.
B5738. Red.
10 FOR \$1.60. **EACH. 17c**

METAL SHELL TYPE

Ideal for portable amplifiers. Brass nickel-plated barrel for shielding purposes. 2 1/4"x3/16". Shpg. wt., 6 oz.
B5694.
10 FOR \$2.65. **EACH. 28c**



STUBBY PHONE PLUG

Shielded type plug for use in limited space. Brass nickel-plated shell. Suited for portable amplifiers. Barrel size, 1 1/2" dia. x 1" long.
B5695.
10 FOR \$2.65. **EACH. 28c**

TRIMM FLAT PLUG



Molded bakelite plug. Flat portion only 1/4" thick. Screws hold tips firmly. Polarity indicated.

B5272. NET.....31c



DOUBLE PHONE PLUGS

Take two sets of cord tips. Have molded bakelite barrel. Wt., 5 oz.
B5515. Black.
B5725. Red.

10 FOR \$1.60. **EACH. 17c**

B5485. Black barrel only.. 9c

B5487. Red barrel only.. 9c

METAL SHELL TYPE

Brass nickel-plated shell for shielding purposes. Shpg. wt., 6 oz.
B5726.
10 FOR \$3.10. **EACH. 33c**

B5486. Barrel only.....21c



FLAT TYPE PLUG

B3972. Molded bakelite plugs, automatic phone tip grips.
10 FOR \$1.05. **EACH. 12c**

CARTER FLAT PLUG



Popular flat plug. Molded bakelite shell only 1 1/4" in diameter. 1/2" thick. Ideal for wall plate connection. Polarity shown.
B8956. NET.....33c

BANANA PLUGS AND JACKS



STANDARD PLUGS

FIG. A. NON-INSULATED nickel-plated brass plug with tinned spring-brass prong. 1 1/2" long.
B6342. EACH.....4c
PER DOZ., 36c.
100 FOR.....\$2.80

FIG. B. INSULATED TYPE. Set screw holds tip in place.
B6345. Red.
B6346. Black. EACH.....6c
PER 10 47c. 100 FOR \$4.55

SPLIT TYPE PLUGS

FIG. C. NON-INSULATED. Durable positive spring.
B6350. EACH.....4c
DOZ., 36c. 100 FOR \$2.80

FIG. D. INSULATED TYPE. Solderless connecting type.
B6351. Red.
B6352. Black. EACH.....7c
DOZ., 74c. 100 FOR \$5.25

BABY TYPE PLUGS

FIG. E. Small banana plug for coil mountings. Wt., 2 oz.
B6354. EACH.....4c
DOZ., 36c. PER 100.. \$2.80

INSULATED TYPE

B6357. Red.
B6358. Black. EACH.....6c
DOZ., 57c. 100 FOR \$4.55

MIDGET SHORT JACK



Smallest made. High grade bakelite insulation. Requires 3/8" mounting hole. Widely spaced lugs. Wt., 4 oz.

B8982. Open Circuit Type for general output.
B8983. Single Closed Circuit. NET EACH.....14c
10 Assorted.....\$1.25



STANDARD JACKS

FIG. A. Nickel-plated brass jack to take all banana plugs. With lug and nut. 3/8" long. Wt., 2 oz.
B6343. EACH.....4c
PER DOZ., 36c.
100 FOR.....\$2.80

FIG. B. INSULATED TYPE. With red or black bushing.
B6347. Red.
B6348. Black. EACH.....6c
10 FOR 47c. 100 FOR \$4.50

BABY JACKS

FIG. C. Designed for use with Baby Type Plugs listed at left.
B6355. EACH.....4c
DOZ., 36c. 100 FOR \$2.85

INSULATED TYPE

B6359. Red.
B6360. Black. EACH.....6c
DOZ., 57c. 100 FOR \$4.55

YAXLEY COLORED TIP JACKS

Insulated jacks for standard cord tip. Mount in 3/8" hole. Spring contact with solder lug connection. With bakelite caps: one red, one black.
B4069. SET OF 2.....15c

BAKELITE TIP JACKS

Bakelite top and washer to insulate tip jack from metal panel or chassis.
B6432. Red.
B6433. Black.
10 FOR 65c. **EACH 7c**

BAKELITE POSTS

Standard binding posts, having 3/8" diameter bakelite head. Post is 5-40 threaded screw, nickel-plated brass. Wt., 2 oz.
B6435. Black. EACH.....4c
10 for.....35c

QUALITY TIP JACKS



FIG. A. Nickel-plated tip jacks for minimum panel space. Bronze springs insure positive grip. Require 1/4" mounting hole. Will fit panels up to 3/8" thickness.
B6362.
PER DOZ., 29c. EACH...3c

FIG. B. Short compact type. Fits panels up to 1/4" thick.
B6363.
PER DOZ., 29c. EACH...3c

FIG. C. INSULATED TYPE. New type sure grip springs insure positive contact. Insulated head and shoulder washer.
B6364. Red.
B6365. Black. EACH.....6c
PER DOZ., 57c.
100 FOR.....\$4.55

FIG. D. BANANA PLUG OR TIP JACK. A combination insulated jack for standard or banana type plug. Equipped with nut and insulating washer. Requires 1/2" mounting hole.
B6367. Red.
B6368. Black. EACH.....8c
PER DOZ., 85c.
100 FOR.....\$6.50

YAXLEY JR. JACK

No. 703. Made to take any standard phone plug. Mounts in 3/8" dia. hole. For panels up to 3/8" thick. Contacts of pure silver. Single circuit filament control jack. Wt., 6 oz.
B11949.
NET.....38c



IMP PLUGS

FIG. A. A metal sleeve midget plug with screw-on connection. Fits all standard tip jacks. Nickel-plated brass. Solderless type.
B6370. EACH.....4c
PER DOZ., 35c.
PER 100.....\$2.80

FIG. B. INSULATED TYPE

B6371. Red.
B6372. Black. EACH.....6c
PER DOZ., 57c.
100 FOR.....\$4.55



CORD TIPS

FIG. A. Practical new design. Hole in sleeve provides convenient means of soldering to wire insert. Drop of solder holds wire securely.
B6373. PER 100, 72c.
B6374. PER 10.....8c

FIG. B. Standard size solderless screw-on connector, 1 1/2" long.
PER 10, 25c.
B6375. EACH.....3c

FIG. C. Standard size nickel-plated brass cord tip; will fit any regular tip jack.
B6376. PER 100, 45c.
B6377. PER 10.....6c

FIG. D. Heavy-duty brass tip with nickel-plated finish. Used on test leads, etc. Length, 1 1/4".
B6522. PER 10, 25c.
B6523. EACH.....3c

FUSES · CLIPS · CONNECTORS

MUELLER CLIPS



Strong channel construction. No solder required. Screw or lug connection. Rustless finish. In types and sizes for all requirements.

MESH TEETH TYPE

B6500. PEE-WEE. $1\frac{1}{2}$ " long. 5 amps. No. 45. 7 lb. spring. Jaw spread, $\frac{3}{8}$ ".

EACH, 4c. Box of 10... **29c**

B6501. PEE-WEE. 2". Spread, $\frac{1}{2}$ ". 10 amps. No. 48B. 10 lb. spring.

EACH, 4c. Box of 10... **32c**

B6512. $2\frac{1}{2}$ " long. 20 amps. No. 27. 12 lb. spring. Jaw spread, $\frac{3}{8}$ ". Meshing teeth on three sides of jaws.

EACH, 8c. Box of 10... **69c**



GRIP TEETH CLIPS

B6520. $2\frac{7}{8}$ " long. No. 24A. 17 lb. spring. Spread, $\frac{1}{2}$ ".

EACH, 7c. Box of 10... **59c**

B6503. 4" long. No. 21A. 33 lb. spring. Spread, $1\frac{1}{4}$ ".

EA. 12c. Box of 10... **1.08**

B6504. 6" long. No. 11A. 38 lb. spring. Spread, $1\frac{3}{4}$ ".

NET EACH... **42c**



WEE-PEE-WEE SOLID COPPER CLIPS

B6510. No. 8893. Insulated. $1\frac{1}{4}$ " long. Jaw spread, $\frac{1}{4}$ ". Saug-fitting rubber insulator already mounted. Ideal for coils and high frequency work.

Per Pair (1 black, 1 red) 20c

Box of 10 (5 pair).....30c

B6480. No. 45C. $1\frac{1}{2}$ " long. 10 amps. Spread, $\frac{1}{2}$ ".

EACH, 6c. Box of 10... **54c**



CROCODILE CLIPS

Type 85. Small clips with slender elongated jaws. Screw terminals; ends fit banana plugs. Length, $2\frac{1}{2}$ ". Jaw spread, $\frac{3}{8}$ ".

B6477. **EACH.....5c**

Per 10, 39c. 100 For \$3.43.



ALLIGATOR CLIPS

B6581. No. 60S. 2" long. Slim jaws, fine meshing teeth for work in close quarters. Convenient round thumb grip. Barrel connection for banana plug; screw terminal.

EACH, 6c. 10 For... **39c**

B6582. No. 60CS. Like 60S but of solid copper.

EACH, 10c. 10 For... **69c**

INSULATED HANDLE TYPE

Same as No. 60S except $2\frac{1}{4}$ " long and equipped with insulating sleeves. Supplied in two colors.

B6506. RED

B6507. BLACK

10 for 65c. EACH.....7c

RUBBER INSULATORS

In pairs of 1 red and 1 black.

No. For Clip Per Pr. 5 Pairs

B6485 45.45C \$0.14 \$0.57

B6486 48B .18 .63

B6487 24A .34 1.37

B6488 21A .73 2.55

B6544 27 .23 .79

B6489 11A 1.19 4.10

B6481 85 .08 .28

LITTELFUSES FOR TEST INSTRUMENTS

Designed especially for the protection of delicate instruments. Glass enclosed units, $1\frac{1}{4}$ ". High-speed action with short time lag. For use on A.C. or D.C. up to 250 volts. Highest quality.



Cat. No.	Rating Amps.	Max. Load M. A.	Aver. Resis. 5 M. A. Load	NET EA.	NET PER DOZ.	Use to Protect Milliammeters:		
						Voltmeters Ohms per Volt	All Magnetic Types	Thermo-Couple Types
B6241	1/200	5	500	18c	\$1.95	Over 1000	Galv.	0-5
B6230	1/100	10	110			1000	Up to 0-1	0-10
B6231	1/32	25	20	12c	\$1.32	500-1000	0-10	0-25
B6232	1/16	60	5.0			100-500	0-25	0-60
B6233	1/8	100	1.5			.....	0-75	0-150
B6234	1/8	100	3.0			20-100	0-75	0-150
B6235	1/4	200	2.2			10-20	0-150	0-200
B6236	3/8	300	3.0	9c	\$1.00	5-10	0-250	0-300
B6237	1/2	400	2.5			3-5	0-350	0-400
B6238	3/4	600	.40			.....	0-500	0-600
B6239	1	1000	.24	6c	65c	.....	0-750	0-1000
B6240	2	2000	.14			.....	0-1500	0-2000

TYPE 3AG LITTELFUSES FOR RADIO & AMPLIFIER

For use in 105-120 volt primary line. Underwriters' approved. $1\frac{1}{4}$ "x $\frac{1}{4}$ ".

No.	Amps.	Volts EA.	DOZ.	No.	Amps.	Volts EA.	DOZ.
B6246	$\frac{1}{8}$	500	9c	B6244	2	250	50c
B6247	$\frac{1}{4}$	500	9c	B6245	3	250	50c
B6248	$\frac{1}{2}$	500	9c	B6288	4	250	6c
B6249	$\frac{3}{4}$	500	9c	B6289	5	250	6c
B6242	1	250	5c	B6290	6	250	6c
B6243	$1\frac{1}{2}$	250	5c	B6291	8	250	9c



FUSE MOUNTINGS

Black molded bakelite mountings for Test Instrument Littelfuses. Have single hole mount.

B6250.

Per Doz., 98c. EACH.....9c

B6251. Panel type mounting.

Per Doz., \$1.30. EACH.....12c

B6255. "Meter Back" mounting.

Size: $1\frac{1}{4}$ "x $\frac{1}{4}$ ".

Per Doz., \$1.30. EACH 12c

Per Doz., \$1.30. EACH 12c

Per Doz., \$1.30. EACH 12c

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Per Doz., \$1.30. EACH 12c

Per Doz., \$1.30. EACH 12c

SFE AUTO FUSES

New series of approved fuses for autos. Standard in most new cars.

No. Amps. Volts EA. DOZ.

B4960 4 $\frac{3}{8}$ "x $\frac{1}{4}$ " dia. 50c

B4961 6 $\frac{3}{8}$ "x $\frac{1}{4}$ " dia. 50c

B4962 9 $\frac{3}{8}$ "x $\frac{1}{4}$ " dia. 50c

B4963 14 $1\frac{1}{8}$ "x $\frac{1}{4}$ " dia. 65c

B4964 20 $1\frac{1}{8}$ "x $\frac{1}{4}$ " dia. 65c

B4965 30 $1\frac{1}{8}$ "x $\frac{1}{4}$ " dia. 65c

Per 10, 27c. 100 for \$2.25.

NET EACH.....3c

***EACH, 4c; 10 for 36c.**



EXTRACTOR FUSE POST

B6258. Underwriters' approved. Molded bakelite. Holds type 3AG fuses. Fits panels up to $\frac{3}{8}$ " thick.

B6259. For Test Instrument.

Littelfuses above.

NET EACH.....24c

FUSE CLIPS

Single hole mount for small auto or radio tubular fuses.

B6253. **NET.....2c**

Per Doz.....14c



FUSE RETAINER

Cadmium-plated separable metal container for fusing a line. Used extensively for auto sets. Takes $\frac{1}{4}$ " or $\frac{1}{2}$ " fuses.

B6252. **EACH.....5c**

Per Doz.....50c

BATTERY BINDING POST

Adapts any auto storage battery for radio set use. Has binding screw for connecting lead wire.

B6341. **18c**



INSULATED TIE TERMINAL

Has a host of uses. Provides convenient tie point for resistors, by-pass condensers, etc.

B6513. **10 FOR.....19c**

100 FOR.....\$1.16

BUSS QUALITY FUSES

TYPE 3AG

Tubular fuses. Compactly made. Size is $1\frac{1}{4}$ in. x $\frac{1}{4}$ in. Protect radio sets, test instruments, etc.



No.	Amp.	No.	Amp.
B6010	1	B6015	5
B6011	$1\frac{1}{2}$	B6016	10
B6012	2	B6017	15
B6013	3	B6018	20
B6014	4	B6019	25
Box of 5. 14c		Box of 5. 10c	
Per 100 \$2.65		Per 100 \$1.60	

EAGLE INDICATING FUSES

Shows "OK" in window when fuse is good; "OK" vanishes when fuse blows.



B3995. 10 Amp.	5 FOR
B3996. 15 Amp.	
B3997. 20 Amp.	20c
B3998. 25 Amp.	
B3999. 30 Amp.	



MOUNTING STRIPS

Handy insulated strips to support resistors, junction connections, etc., on metal chassis.

No.	Lugs	EACH	TEN
B6305	2	3c	16c
B6306	3	3c	18c
B6307	4	4c	33c
B6308	5	4c	33c
B6309	6	4c	33c

TERMINAL STRIPS

Bakelite strips with securely fastened screw terminals.



No.	Term.	Each	TEN
B6311	2	9c	\$0.74
B6312	3	4c	1.93
B6313	4	12c	1.25
B6314	5	19c	1.25
B6315	6	23c	1.85
B6436	7	28c	2.50
B6437	8	34c	3.00
B6438	9	40c	3.55
B6439	10	46c	4.00



TERMINAL BOARDS

Plug-in type. Has tempered metal contacts securely fastened on $\frac{1}{2}$ " centers on durable bakelite strips.

No.	Clips	EACH	TEN
B4910	2	6c	54c
B4911	3	7c	63c
B4912	4	9c	8c
B4913	5	10c	90c
B4914	6	12c	\$1.08
B4915	7	15c	1.35
B4916	8	20c	1.80

B4917. Contacts. 10 For... 7c

INSULATED PIN PLUGS

B4921. BLACK.

10 For 35c. EACH.....4c



FAHENSTOCK CLIPS

B6320. Single, 1" long.

NET PER DOZ.....9c

B6321. Single, $\frac{3}{4}$ " long.

RADIO HARDWARE VALUES

RIGHT ANGLE BRACKETS

Nickel-plated angle brackets. Provide firm support at corners of cabinets, racks, etc. $\frac{3}{4}$ " width. #Z bracket.

No.	Size	EA.	Per 10
B4862	$\frac{1}{2}$ " x $\frac{1}{2}$ "	1c	9c
B4863	$\frac{1}{2}$ " x $\frac{1}{2}$ "	1c	15c
B4864	$\frac{1}{2}$ " x $\frac{1}{2}$ "	$\frac{1}{2}$ "	19c
B4865	$\frac{1}{2}$ " x $\frac{1}{2}$ "	$\frac{1}{2}$ "	25c
B4866	$\frac{1}{2}$ " x $\frac{1}{2}$ "	$\frac{1}{2}$ "	32c
B4867	$\frac{1}{2}$ " x $\frac{1}{2}$ "	$\frac{1}{2}$ "	19c

WITH TAPPED HOLES

For chassis, cabinets, etc. One 8-32 tapped hole and one $\frac{1}{8}$ " dia. plain hole. Cadmium-plated steel.

No.	Size	10 FOR
B1663	$\frac{1}{2}$ " x $\frac{1}{2}$ "	16c
B1664	$\frac{1}{2}$ " x $\frac{1}{2}$ "	23c
B1665	$\frac{1}{2}$ " x $\frac{1}{2}$ "	23c

B7009. Bracket assortment. 28 popular-sized angles and brackets. Wt., 1 lb. **NET... 21c**

INSULATED GROMMETS

Prevent wires from fraying or breaking. Knurled mounting nut.

No.	Diam.	Hole	Lgth.	DOZ.
B7024	$\frac{3}{8}$ "	$\frac{1}{8}$ "	$\frac{3}{8}$ "	52c
B7025	$\frac{3}{8}$ "	$\frac{1}{8}$ "	$\frac{3}{8}$ "	53c
B7026	$\frac{3}{8}$ "	$\frac{1}{8}$ "	$\frac{3}{8}$ "	70c
B7027	$\frac{3}{8}$ "	$\frac{1}{8}$ "	$\frac{3}{8}$ "	82c

RUBBER GROMMETS

For insulating holes in metal plates up to $\frac{1}{8}$ " thick. Of durable live black rubber.

Stock	Fits Inside Hole	Per Doz.
B7028	$\frac{1}{8}$ "	8c
B7029	$\frac{1}{8}$ "	19c
B7030	$\frac{1}{8}$ "	20c

ESCUTCHEON SCREWS

Brass wood screws $\frac{1}{4}$ " long. For escutcheons, nameplates, indicators, etc. **B7040. Gross... 29c**

PLUG BUTTONS

Plated brass buttons for covering holes up to $\frac{1}{8}$ " thickness in panels, chassis, racks, cabinets, etc.

No.	Hole Dia.	Each	TEN
B3964	$\frac{1}{8}$ "	2c	16c
B3965	$\frac{1}{8}$ "	2c	20c
B3966	$\frac{1}{8}$ "	3c	24c
B3967	$\frac{1}{8}$ "	3c	24c
B3968	$\frac{1}{8}$ "	5c	42c

TUBULAR RIVETS

For replacement and repair work. Refer to page 185 for rivet tool. Much faster than screws and nuts.

No.	Size	PER 100	PER 25
B6393	$\frac{1}{8}$ "	28c	10c
B6394	$\frac{1}{8}$ "	29c	11c
B6395	$\frac{1}{8}$ "	38c	15c

EYELETS FOR ABOVE

No.	Size	PER 100	PER 25
B6396	$\frac{3}{8}$ "	22c	9c
B6397	$\frac{1}{2}$ "	22c	9c
B6398	$\frac{1}{2}$ "	38c	15c

RUBBER BUMPER FEET

Standard 6-32 screw. Provide steady, solid footing for table cabinets, etc. Prevent marring polished surfaces. Will not loosen. **B7092. EACH... 2c**
10 FOR... 18c 50 FOR... 75c



Miscellaneous Hardware

Wing nuts and cap nuts are nickel plated. For dressing up appearance of all apparatus. Lock washers are spring steel.

Size	Wing-nuts	EACH	Cap nuts	10 FOR	Lock washers	25 FOR
6-32	B4850	3c	B4855	11c	B4858	6c
8-32	B4851		B4856		B4859	
10-32	B4852				B4860	
$\frac{1}{4}$ -20	B4853					

RADIO HARDWARE IN JARS



Glass jars with screw-on caps offer a neat, convenient way of storing your radio hardware. Jar comes filled with any single selection of hardware below. Buy your hardware this way and keep your workbench ship-shape. Shpg. wt., per jar 8 oz.

YOUR PRICE ANY JAR COMPLETE WITH HARDWARE... 22c
B4870. Glass Jar Only... 5c

R.H. MACHINE SCREWS (A)

No.	Quantity	Size
B4871	100	4-36x $\frac{1}{2}$ "
B4872	75	4-36x $\frac{3}{4}$ "
B4873	90	6-32x $\frac{1}{2}$ "
B4874	80	6-32x $\frac{3}{4}$ "
B4875	70	6-32x1"
B4876	50	6-32x1 $\frac{1}{2}$ "
B4877	65	8-32x $\frac{3}{4}$ "
B4879	35	10-32x1"

NICKEL HEX NUTS (B)

No.	Quantity	Size
B4880	100	4-36x $\frac{1}{2}$ "
B4881	90	6-32x $\frac{1}{2}$ "
B4884	80	6-32x $\frac{3}{4}$ "
B4882	80	8-32x $\frac{3}{4}$ "
B4883	50	10-32x $\frac{3}{8}$ "

NOTE: In hardware above is also available in smaller quantities in envelopes. When ordering, write letter X after catalog number to identify type of hardware wanted. **EACH... 6c**

HANDY HARDWARE ASSORTMENTS



ALL-PURPOSE ASSORTMENT

An indispensable item for the serviceman, experimenter, etc. Metal case has 12 compartments containing assorted machine screws, nuts, spade bolts, self-tapping screws, rubber grommets, knob set screws, rivets and eyelets, lugs, washers, etc. Wt., 5 lbs. **B7094. NET... \$1.76**

1000 PIECE ASSORTMENT

A bargain assortment of radio hardware that will prove invaluable to any serviceman or experimenter. Contains rivets, grommets, nuts, screws, washers, brackets, soldering lugs, etc. — 1,000 pieces of useful hardware for servicing, set-building, and all other needs. Shpg. wt., 4 lbs. **B7008. YOUR PRICE. 95c**

BELDEN SOLDER LUG ASSORTMENT



100 popular solder terminals used in set building and servicing. In clearview carton. Wt., 8 oz.

B3430. NET... 36c

SWITCH POINTS AND STOPS



Heavy nickel plated brass. 6-32 thread, $\frac{1}{2}$ " long. Supplied with a $\frac{1}{4}$ " nut.

Switch Points. Switch Stops. B7003. B7004. PER DOZ. 8c PER DOZ. 8c
B7031. Switch handle and slider, with knob. NET... 9c

CABLE CLAMPS



The $\frac{1}{4}$ " size fits $\frac{1}{4}$ " cable; $\frac{1}{2}$ " size fits $\frac{1}{2}$ " cable. Made of heavy-gauge steel, cadmium-plated. Have a No. 6 mounting hole. In two sizes.

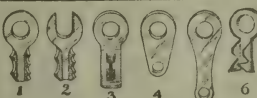
B1666. $\frac{1}{4}$ " long. 6c
B1667. $\frac{1}{2}$ " long. 10 for... 54c

FIBER WASHERS

A large variety of shouldered and plain fiber washers useful to every Radio Experimenter and Serviceman. Assortment of 100 washers per box. Shpg. wt., 1 lb. **B7033. PER BOX... 21c**

SPACERS AND BUSHINGS

Assortment of 25 bushings and spacers in $\frac{1}{4}$ " and $\frac{3}{8}$ " dia., from $\frac{1}{8}$ " to $\frac{1}{2}$ " long. For raising subpanels, chassis, etc. In brass or fenoline insulated. Wt., 1 lb. **B4902. Insulated Assortment. B4901. Brass Assortment. NET EACH... 39c**



SOLDERING LUGS

Good quality tinned brass soldering lugs in sizes and shapes to meet every requirement. Provide sure, permanent connections.

No.	Style	Screw Size	PER PKGE. of 100
B7045	1	6	18c
B7046	2	6	
B7047	3	8	
B7048	4	6, 8	
B7049	5	6, 8	
B7018	4	10	
B7023	3	$\frac{1}{4}$ "	
B7034	6	6	

CADMIUM-PLATED MACHINE SCREWS

Standard thread. Cadmium-plated steel machine screws in a wide selection of sizes for every purpose.

No.	Length	Gross
B7010	$\frac{1}{2}$ "	16c
B7011	$\frac{3}{8}$ "	17c
B7012	$\frac{1}{2}$ "	18c
B7013	$\frac{3}{8}$ "	20c
B7014	$\frac{1}{2}$ "	23c
B7015	$\frac{1}{2}$ "	29c
B7016	$\frac{1}{2}$ "	39c
B7017	$\frac{1}{2}$ "	56c

No.	Length	Gross
B7019	$\frac{3}{8}$ "	21c
B7020	$\frac{1}{2}$ "	23c
B7021	$\frac{1}{2}$ "	27c
B7022	$\frac{1}{2}$ "	52c

METAL TAPPING SCREWS

Cut their own threads in metal as they are turned in. For all sheet metal up to No. 16 gauge.

Size 6	Size 8	No.	Gross
B7035	26c	14th	
B7036	27c	$\frac{1}{2}$ "	B7041 30c
B7037	28c	$\frac{1}{2}$ "	B7042 32c
B7038	29c	$\frac{1}{2}$ "	B7043 34c
B7039	30c	$\frac{1}{2}$ "	B7044 36c

PHILLIPS MACHINE SCREWS

Round head; cross-slots; cadmium plated.

No.	Length	Gross
B7130	$\frac{1}{2}$ "	39c
B7131	$\frac{1}{2}$ "	41c
B7132	$\frac{1}{2}$ "	44c
B7133	$\frac{1}{2}$ "	48c

No.	Length	Gross
B7134	$\frac{1}{2}$ "	41c
B7135	$\frac{1}{2}$ "	44c
B7136	$\frac{1}{2}$ "	51c

ORNAMENTAL HEAD SCREWS

Rosette head; statuary bronze finish. Size 6-32 ($\frac{3}{8}$ " head dia.).

No.	Length	Doz.
B7000	$\frac{1}{4}$ "	8c
B7001	$\frac{1}{4}$ "	9c
B7002	$\frac{1}{4}$ "	10c

SPADE LUGS

For mounting shield cans, etc. Cadmium plated, 6-32 thread. **B7007. Per 100, 25c. 5c**
PER 10, NET... 5c

HEXAGONAL NUTS

Standard $\frac{1}{8}$ " nuts, machined steel, heavy cadmium plated.

B7005. 6-32. 17c
B7006. 8-32. PER 100. 17c

SHAKEPROOF HARDWARE

Sturdy lugs and washers that cannot come loose when nut is tightened. Indispensable for tight, workmanlike connections.

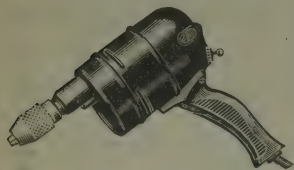
Lug No. Washer No.
B4905 For 6-32 Screw B4907
B4906 For 8-32 Screw B4908
100 FOR 20c.
25 FOR... 6c

JUMBO SHAKEPROOF SOLDER LUGS

Cadmium-plated soldering lugs with $\frac{1}{4}$ " hole. Ideal for auto aerial connections, etc. **B7032. 10 FOR... 6c**
100 FOR... 49c

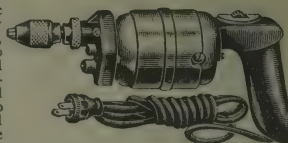
Quality TOOLS FOR EVERY PURPOSE

GILBERT AC-DC "HOBBY" DRILL



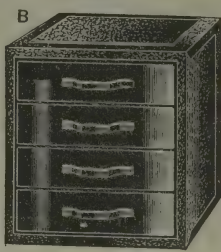
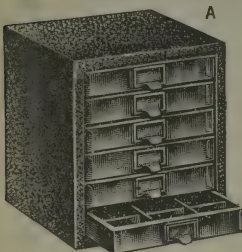
An excellent drill for general use. Small, light, sturdy, dependable. Size permits use in small places. Easy to handle; for metal or wood. Universal motor operates on 110-120 volts, AC-DC. Complete with chuck, rubber cord and plug. Has toggle switch control. Takes up to and including 1/4" straight shank drills. Finished in aluminum. Size 7 3/4" x 6". Shpg. wt., 4 1/2 lbs. **B2120. NET... \$5.65**

AC-DC ELECTRIC SPEED DRILL



Here is a high-quality electric speed drill at a remarkably low price. Very rugged construction, yet light in weight and easy to handle. Efficient motor is designed for long life. Sturdy chuck-assembly accommodates up to and including 1/4" drill. Pistol-grip handle has thumb-controlled switch. All high speed drills are suitable for use with this tool. 1500 R.P.M. Drills 3/4" from corners. For 110 V. A.C. or D.C. Equipped with 7 foot cord. Shipping wt., 4 1/2 lbs. **\$6.95**
B2110. YOUR SPECIAL PRICE.....

ALL-STEEL PARTS CABINETS



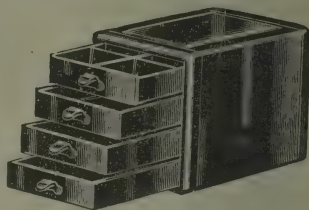
Popular small-parts cabinets for the numerous items necessary in a service shop. Drawers have separators for different size parts. Low-cost storage cabinets of universal utility. Ruggedly built for long service.

B16122. FIG. A. Utility Cabinet. Six large drawers sectioned in convenient compartments. Dark-green ripple-finish. Size, 13 1/4" long 10 1/2" wide and 11 3/4" high. Space for index tabs. Shpg. **\$3.53**
wt., 20 lbs. **NET.....**

B15981. FIG. A. As above, but smaller in size. Measures 8" long, 6" wide, and 9" high. Contains six drawers, each 5" x 8", with separators. Shpg. wt., 6 lbs. **\$1.76**
NET.....

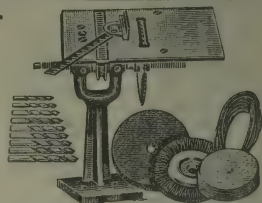
B15982. FIG. B. A 4 drawer all-steel cabinet. Size, 8 1/4" long, 5 3/4" wide, 6" high. Each drawer measures 4 1/2" by 8". 3 drawers have separators. Shpg. wt., 4 lbs. **\$79c**
NET.....

STEELMASTER CHEST



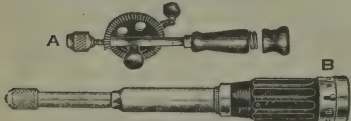
Ideal Utility cabinet for filing small items and parts. Indispensable for workshops, stock-rooms, etc. Streamline design. Size, 5 1/2" wide, 8" deep, 7 1/4" high. Made of pressed metal, rounded and beveled. No screws or bolts used in construction. Has hard-baked olive-green enamel finish. Four easy-slide drawers are divided into compartments. Shpg. wt., 4 lbs. **\$8c**
B15980. EACH.....
LOTS OF 6, EACH...79c

POLISHING HEAD OUTFIT



A complete polishing kit for home or shop. Use with a 1/4 to 1/2 horsepower motor for polishing, grinding, buffing, sawing, or drilling. Consists of polishing head and chuck, saw table and guide, cotton buff, wire brush, saw, emery stone, leather belt, and 9 steel drills. Head has a two-speed pulley. Chuck has a capacity of 3/8", and holds drill in dead center. Two steel flanges hold stone, scratch brushes, etc., squarely against material being worked. Saw table clamps securely to polishing head. Red enamel finish. Shpg. wt., 8 lbs. **\$3.35**
B2111. Complete. NET.....
B2112. Polishing head and chuck only. NET.....95c

VALUES IN QUALITY DRILLS



B2122. FIG. A. Sturdy, well-balanced hand drill with 1/4" hardened steel jaws adjustable from zero to full quarter-inch capacity. Polished hollow hardwood handle provides space for storing drills. Shpg. wt., 2 lbs. **\$79c**
NET.....

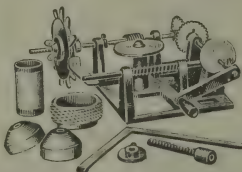
B2123. FIG. B. A highly efficient low-priced automatic push-drill. Supplied with eight fluted-shank drill points, from 1/16" to 1/4" in diameter, contained in numbered compartments in black bakelite handle. May be used as screwdriver. Shpg. wt., 1 lb. **\$1.49**
NET.....

ACRO CHASSIS CRADLE

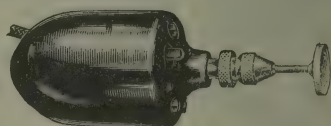


An absolute necessity for efficient radio servicing. Permits locking any radio set or amplifier chassis in any position to allow easy test or replacement of parts; for aligning receivers while set is operating or for easy access to wiring. Prevents damage to tubes and other mounted parts. All parts of the chassis are easily accessible. The convenience of a chassis cradle is never fully appreciated until one has been tried. Ideal for radio schools when instructor is explaining radio chassis design. Special mechanical clamp holds chassis firmly in place; cannot slip. Adjustable base accommodates any size chassis up to 21" long. Made of cold-rolled heavy steel. Shpg. wt., 5 lbs. **\$3.25**
B1617. NET.....
B1618. Extra set of clamps.....\$2.25

MORRIS COIL WINDER



This Universal Coil Winding Machine will wind Honeycomb, Spiderweb, and Solenoid coils in different widths and diameters. Handles various sizes of wire to make coils that equal factory accuracy. Recorder with adjustable pointer accurately counts number of turns. Ideal for the experimenter or small factory. Hand-powered. Shpg. wt., 4 lbs. **\$4.35**
B9302. NET PRICE.....



QUALITY UTILITY GRINDER

Fully guaranteed, precision-built grinder combining speed, accuracy, and utility. Convenient small size; overall dimensions, 2 1/4" dia. by 5 1/4" long. Ideal for model-building, engraving, etching, buffing, drilling, routing, etc. Rotor operates at 18000 R.P.M. Operates on 110-120 volts, 60 cycles AC or DC. Has Durex bearings. Improved wiring system gives positive protection against shocks and short circuits. With 6-foot Underwriters'-approved rubber cord. Finger type switch. Has adjustable chuck with extra collet for 3/8" shank and three emery wheels. Durable black bakelite housing. Shpg. wt., 4 lbs. **\$3.95**
B2124. Complete. NET.....

HANDY CLAMP LAMP

Handy for servicing receivers. Rubber covered clamp fastens on side of cabinet or chassis. Adjusts to any angle. Shade dia., 5 1/2". Takes standard bulb. With switch, less bulb. Wt., 2 lbs. **\$16.06**
NET.....89c



NEW DAVY FOOTSWITCH

This very convenient device meets the rigid requirements of a momentary contact, trigger-type switch. Underwriters' Approved, 750 watt capacity. Ideal for photo work, etc. Simply plug switch into nearest outlet and connect plug of device being controlled into receptacle on foot switch. Black crystal finish; plated top and lever with anti-crack rubber base. Wt., 2 lbs. **\$1.96**
B4196. With cord and plug. NET.....



ASSORTED DRILL SET



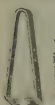
American-made. Quality high-speed twist drill set, containing the popular sizes necessary for radio and other work. Set consists of 9 carbon steel drills ranging from 1/16" to 3/16" sizes in 1/4 inch size graduations. Wt., 10 oz. **\$95c**
B7720. NET.....

END-WRENCH SET



A handy little end-wrench set with many uses. Cadmium-plated; cannot rust. Wrenches are 1/4"-3/16", 3/8"-7/16", and 1/2" with alligator jaw. American-made. Shpg. wt., 1 lb. **\$10c**
B2078. Complete set of 3 Wrenches. NET.....

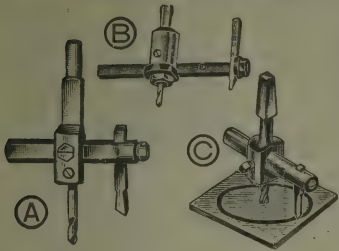
WIRE STRIPPER



This efficient, time-saving tool strips insulation from wire easily and cleanly. Has tempered steel cutting edge. Shpg. wt., 1 lb. **\$9c**
B7722. NET.....

Values in POPULAR TOOLS

ALL-PURPOSE CIRCLE CUTTERS



Designed to cut large holes accurately and quickly. May be used in slow-speed drill press or ordinary hand-brace. Type C is designed for heavy-duty work; Type A is a standard professional cutter, heavy bar construction; Junior type is for light work on softer materials. Removable cutter blades. Will cut holes in wood, bakelite, hard rubber, tin, sheet metal, etc. Fine values in American-made tools.

B7731. Type A. Professional model. High quality

hardened steel. Cuts clean holes $\frac{7}{8}$ " to 4" in diameter in all types of materials. Shipping wt., 2 lbs. **NET \$1.25**

B7730. Junior. Not illustrated. Cuts holes $\frac{3}{8}$ " to $2\frac{1}{2}$ " in diameter. Suitable for light duty cutting in panels and chassis. Wt., 1 lb. **NET 78c**

B7732. Type C. Square Shank. Heavy-duty cutter. Cuts holes 1" to $5\frac{1}{2}$ " in diameter in bakelite or metal panels. Shpg. wt., 2 lbs. **NET \$1.88**

B7733. Type C. Round Shank. Same as Type C above, but with round shank for use in power drill chuck. Cuts holes from 1" to $5\frac{1}{2}$ ". Shpg. wt., 2 lbs. **NET \$1.88**

B7723. Type B. $\frac{3}{4}$ " to 8" Circle Cutter. All-purpose cutter of high-grade hardened steel. Fits brace or chuck. Cuts metal, bakelite, etc. Shpg. wt., 2 lbs. **NET \$2.35**

B7735. Cutter Blades. Extra blades for Type A and C cutters listed above. Made of finest tool steel, hardened for long wear. Shpg. wt., 4 oz. **NET 24c**

CHASSIS AND PANEL PUNCHING TOOLS



B7872. Fig. A. REAMER. Shank has T-type handle. Overall length, $5\frac{3}{4}$ "; taper, $3\frac{3}{4}$ ". Small end diameter, $\frac{1}{8}$ "; large end diameter, $\frac{1}{2}$ ". Shpg. wt., 1 lb. **NET 69c**

B1616. Fig. B. RIVET AND EYELET PUNCH. A universal tool for any size eyelet or rivet. 6-sided, heavy cast-iron base may be clamped in a vise. Shpg. wt., 2 lbs. **NET \$1.32**

B1615. As above but includes anvil base, $5\frac{3}{4}$ " dia. x 3" H. Shpg. wt., 7 lbs. **NET \$1.75**

B1613. RIVET AND EYELET SETTING TOOL ONLY. As used in B1616 above. Fig. B. **NET 35c**

B1614. Fig. C. CABLE EYELET TOOL. Base fits in vise; clincher punch turns rivets. Wt., 1 lb. **NET 29c**

Fig. D. EASY SELF-ALIGNING PUNCH. Requires only pin punch for centering. Wt., 1 lb. **NET 1.67**

No.	DIA.	EACH
B4970	$\frac{3}{16}$ "	\$1.67
B4971	$\frac{1}{4}$ "	
B4972	$\frac{5}{16}$ "	
B4973	$\frac{3}{8}$ "	
B4974	$\frac{1}{2}$ "	

A1641. For Amphenol Sockets. Provides locking key. $1\frac{1}{4}$ " hole. **NET \$2.94**

Fig. E. CHASSIS SHEAR PUNCHES. Cuts round hole by turning cap screw. Shpg. wt., 1 lb. **NET 1.37**

CAT. NO.	DIA.	EACH
B4975	$\frac{3}{16}$ "	\$1.37
B4976	$\frac{1}{4}$ "	
B4977	$\frac{5}{16}$ "	\$1.64
B4978	$\frac{3}{8}$ "	
B4979	$\frac{1}{2}$ "	\$1.83
B4980	$\frac{5}{8}$ "	
B4981.	Extra $\frac{3}{8}$ " Cap Screws.	17c

NET 17c

HIGH-GRADE SOCKET WRENCH SELECTION



SPIN-TYPE WRENCHES

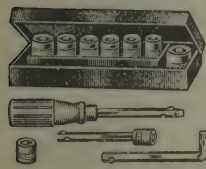
High grade hexagon socket wrenches for every radio requirement. Sockets of hardened tool steel designed to grip firmly. Shanks are cadmium-plated steel with ribbed easy-to-grip wooden handles. Offset type reaches into tight places. Shpg. wt. each, 8 oz. Set, 3 lbs.

Nut Size	6" Straight	9" Straight	7" Offset
$\frac{3}{16}$ "	B2055	B2062	B2069
$\frac{1}{4}$ "	B2056	B2063	B2070
$\frac{5}{16}$ "	B2057	B2064	B2071
$\frac{3}{8}$ "	B2058	B2065	B2072
$\frac{7}{16}$ "	B2059	B2066	B2073
$\frac{1}{2}$ "	B2060	B2067	B2074

NET EACH \$1.1c
Set of 6.....60c

NET EACH \$1.2c
Set of 6.....65c

SOCKET WRENCH SET AND SCREWDRIVER



A set of 8 sockets in assorted sizes to handle hex, square, and round nuts. Consists of 1— $\frac{1}{4}$ " hex socket mounted on $3\frac{3}{4}$ " straight extension; 5 hex sockets in $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " sizes, 2 square sockets in $\frac{1}{4}$ " and $\frac{3}{8}$ " sizes, 1 round nut socket, 1 "L" shaped extension, 4" long, and 1 screwdriver wrench handle. Patented locking device holds tools firmly to handle. Shpg. wt., 4 lbs. **NET 73c**

B5516. NET 73c

MASTER STEEL TAPE RULES



INSIDE MEASURE—BUTTON LOCK

A new steel tape rule for inside, outside, height, depth, and layout measurements. Rule has double-edge marking. $\frac{1}{2}$ " tape; 6 ft. long **NET 93c**

B1690. NET 93c

B1691. In round metal case without lock or inside measure. **NET 56c**

STEEL SNIPS
Genuine drop forged tool steel snips. 7" long for cutting chassis stock and general small work. Shpg. wt., 2 lbs. **NET 41c**

B7876. NET 41c



AMBER HANDLE WRENCHES

Hardened tool-steel socket wrenches. Hollow shafts. Shockproof, unbreakable plastic handle. Each wrench is $7\frac{1}{2}$ " in length. Shpg. wt. 12 oz.

No.	Size	No.	Size
B2080	$\frac{3}{16}$ "	B2084	$\frac{3}{8}$ "
B2081	$\frac{1}{4}$ "	B2085	$\frac{1}{2}$ "
B2082	$\frac{5}{16}$ "	B2086	$\frac{3}{4}$ "
B2083	$\frac{1}{2}$ "		

NET EACH 35c
B2087. Set of 7 wrenches. NET \$2.21
B1601. A Volume Control Wrench similar to those above. For hexagonal nuts measuring $\frac{3}{16}$ " across. **NET 59c**

SOCKET WRENCH SET



Set of 5 detachable sockets of wrought steel. With wrench handle. Sizes: $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", and $1\frac{1}{2}$ " inch. Exceptional value. Wt., 1 lb. **NET 32c**

B7690. NET 32c

HOLLOW HANDLE SET



Hollow handle holds all sockets. Sizes, $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", and screwdriver socket. $7\frac{1}{2}$ " long. Shpg. wt., 1 lb. **NET 47c**

B7737. NET 47c

HANDY GAUGES



B1622. 6" Rule & Wire Gauge. Stainless steel. Front graduated in 32nds and 64ths, also B. & S. wire gauge. Back has decimal equivalents. For Nos. 8 to 20 wire. With case. **NET 23c**

B7877. Micrometer. Precision-built; accurate to 1/1000 of an inch. Hardened steel. Zero setting in anvil. Standard 1" size. Wt., 8 oz. **NET 98c**

B7878. $\frac{1}{2}$ " size. NET 49c

B1620. Drill and Wire Gauge. A handy, accurate gauge of polished, tempered steel. Has index on the face for machine screw taps. Sizes are in decimal equivalents and number size. **NET 95c**

LITTELFUSE NEON TATTLELITE

Pocket neon tester. Indicates voltages from 90 volts DC and 60 volts AC to 500 volts AC or DC. Tests for live lines, grounded lines, open circuits, shorts, polarity and whether AC or DC or RF. Locates blown fuses, defective spark plugs and cable, etc. Moulded tenite body, color-coded leads. Insulated test tips prevent accidental shocks. With neon lamp. Full directions. **NET 59c**

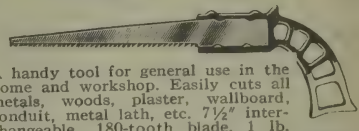
B6256. NET 59c



LOW-VOLTAGE TATTLELITE

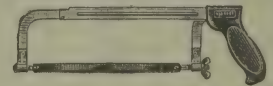
B6275. As above but tests 3 to 25 volts AC or DC. Alligator clips on test leads. **NET 1.03**

KEYHOLE HACKSAW



A handy tool for general use in the home and workshop. Easily cuts all metals, woods, plaster, wallboard, conduit, metal lath, etc. $7\frac{1}{2}$ " interchangeable, 180-tooth blade. 1 lb. **NET 22c**

B7870. Frame and Blade. NET 22c
B7871. Extra Blades for above. 6 FOR 54c. NET EACH 10c



PISTOL GRIP HACKSAW

Black composition handle. Highly polished nickel-plated steel frame adjustable 8" to 12". With 8" blade. Shpg. wt., 2 lbs. **NET 39c**

B7897. NET 39c

QUALITY HACKSAW BLADES

Hard, flexible blades with a longer life. 8" long, $\frac{7}{16}$ " wide. 1 fine and 1 coarse. **NET 9c**

B7898. NET. SET OF 2.....9c

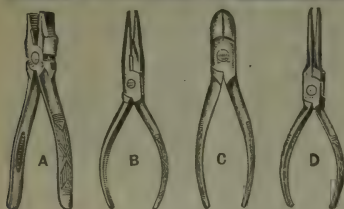
RADIO TAP, DRILL AND DIE SET

A complete set for most threads used in radio. 3 taps with drills for 4/36, 6/32, 8/32 threads. Three 1" dia. dies for cutting above threads. Die stock and adjustable tap wrench. In wood case, $11\frac{1}{2}$ " x $3\frac{3}{4}$ " x $1\frac{1}{4}$ ". Wt., 3 lbs. **NET 1.59**

B1623. NET 1.59



Quality TOOLS FOR EVERY PURPOSE



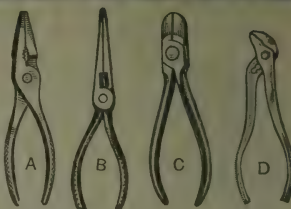
KRAEUTER PLIERS

The famous top-notch quality Kraeuter pliers are made to exacting specifications. Have new Blue Tempered finish, the secret of long-lasting high quality tools. Scientifically heat-treated and hardened. Fine American-made tools. Wt., 1 lb.

TYPE A	TYPE B	TYPE C	TYPE D
6 Inch Electrician's Type Pliers. B7807. NET	6 Inch Needle-Nose Side Cutter. B7806. NET	5 Inch Diagonal Cutter Pliers. B7808. NET	6 Inch Diagonal Cutter Pliers. B7805. NET
89¢	98¢	89¢	\$1¹⁵

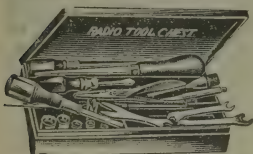
POPULAR-PRICED RADIO PLIERS

Fine values in American-made pliers for radio and electrical work. Carefully made of hardened steel; stoutly built to give long, reliable service. Every serviceman, experimenter, and Amateur can use these pliers to good advantage. Offered in four types for every requirement at attractively low prices. Wt., 1 lb.



TYPE A	TYPE B	TYPE C	TYPE D
Sturdy 6 Inch Thin Nose Type Pliers. B7801. NET	5 Inch Special Long Nose Side-Cutting Pliers. B7802. NET	5 1/2 Inch Diagonal Cutting Type Pliers. B7800. NET	Midget Pliers; 4 Adjustments up to 3/8". B7709. NET
37¢	38¢	32¢	25¢

RADIO TOOL CHEST



This handy chest contains 12 useful, sturdy tools for the serviceman or set-builder. Consists of: 3" and 5" screwdrivers, scriber, reamer, counter - sink, pliers, center - punch, socket wrench sets for hexagon and knurled nuts, and 3 hexagon nut wrenches from 1/4 to 1/2". Size of case 3 1/2" long, 3 1/2" wide, 1 1/2" high. Shipping wt., 2 lbs.

B7691. NET **\$2.25**

FRICTION TAPE



Made of good quality fabric impregnated with an adhesive rubber compound. Has high insulation qualities. Easy to apply; will not dry out. Black in color. Rolls come in handy 3/4" width.

B7705. 2 Oz. Roll.....	7¢
B7706. 4 Oz. Roll.....	12¢
B7707. 8 Oz. Roll.....	19¢

SCOTCH TAPE

A tough flexible tape with high insulation value. Paper backing with adhesive coating. 1/2" wide. 10 yard rolls. Wt., 1 lb.

B7708. NET **29¢**

PLUGS AND CAPS



B3443. Fig. A. **PLUG CAP.** A molded brown bakelite plug with finger-grip. Prevents pulling out wires. Parallel blade type. Wt., 4 oz. **NET 4¢**

B3409. Fig. B. **CUBE TAP.** Three connections from one outlet. Sturdy construction; molded brown bakelite. Wt., 4 oz. **NET 6¢**

B3978. Fig. C. **RUBBER HANDLE CAP.** Unbreakable soft rubber attachment plug cap. Sturdy brass blades. Approved type. Shpg. wt., 4 oz. **EACH 4¢**

10 FOR 35¢

POCKET TOOL CASE



A convenient, two partition case that can be carried in the hip pocket. Will hold assortment of small tools. Genuine leather, double-sewed, with snap-on flap. Supplied less tools. Shpg. wt., 1 lb.

B1643. NET **59¢**

RADIO REPAIR LIGHT



A handy tool designed to save time and trouble. Provides light where you want it. Fountain-pen size. For 110 volts AC or DC. An essential tool. Complete with bulb. 5 1/2 foot cord. Shipping weight, 1 lb.

B1668. NET **88¢**

HANDY ALL-PURPOSE GAS-PLIERS



A sturdy drop-forged slip-joint combination plier and wire-cutter. Has positive grip grooves in jaws. Cadmium finished. 6 1/2" long. Wt., 1 lb.

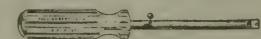
B7873. NET **15¢**

LIFETIME "STUBBY" SCREWDRIVER

Tempered high carbon crucible tool steel blade. 1/2"x1 1/2". Amberyl handle, will not chip, crack, or break. Shock-proof. Shpg. wt., 6 oz.

B7874. NET **33¢**

GRIP-POINT UTILITY SCREWDRIVERS



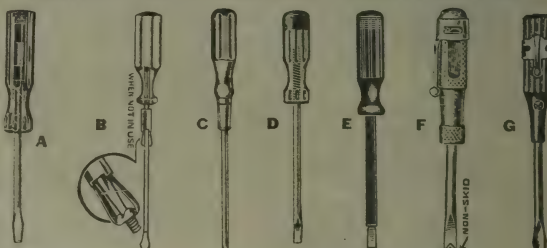
Revolving grip-point holds screw to driver until screw is set. Easily operated with one hand. Has hardened tool steel blade; transparent unbreakable handle. Non-slipping. Shpg. wt., 8 oz.

B7882. For screws 1-6. 3/8" x 4 1/4"; 7 1/4" overall. **NET 65¢**

B7883. For screws 4-14. 1/4" x 4 1/4"; 8" overall. **NET 73¢**

B7884. For screws 8-20. 3/8" x 4 1/4"; 8 1/4" overall. **NET 82¢**

HANDY ALL-PURPOSE SCREWDRIVERS



B7880. Fig. A. **SUNDT NEON "FIRE DEVIL."** Fine quality screwdriver. Built-in neon tube in handle glows when contact is made. 4 1/2" overall. Transparent handle, 1 1/2". Blade, 2 1/2". Insulated for 5000 volts. **12 FOR \$2.60. EACH 24¢**

B7881. Handle, 3 3/4". Blade, 3 1/4". 15,000 V. 7" overall. **6 FOR \$3.18. EACH 59¢**

B7885. Fig. B. **"HOLD-E-ZEE."** New screwdriver with spring action gripper for set-ups in awkward places. 3" chrome-vanadium steel blade; amber handle. **NET 33¢**

B7886. 4" blade. **EA. 43¢**

B7887. 6" blade. **EA. 43¢**

B7888. 10" blade. **EA. 46¢**

B7891. Fig. C. **"PHILLIPS" SCREWDRIVER.** Recessed head screwdriver; indispensable for servicing many new sets. Has standard wood handle. 3" blade. For No. 4 size and smaller. **NET 22¢**

B7892. 4". No. 5 to No. 9 sizes. **NET 24¢**

B7893. 6". No. 10 to No. 16 sizes. **NET 28¢**

B7715. Fig. D. Forged chrome-vanadium alloy steel blade, accurately ground to fit screw slot. Amber handle, 3" blade. **NET 28¢**

B7716. 6" Blade. **36¢**

B7717. 8" Blade. **39¢**

B7698. Fig. E. **INSULATED BLADE TYPE.** 10,000 V. Insulated screwdrivers. Red and black composition handle. 5" insulated steel blade. **NET 14¢**

B7699. 6 1/2" blade. **NET 17¢**

B7712. Fig. F. Non-skid, shock-proof, with ribbed points. Genuine Amberlite handle; with clip. 3" blade. **10 FOR \$3.35. EACH 15¢**

B7711. 2" blade. **10 FOR \$1.26. EACH 14¢**

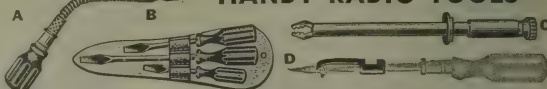
B7710. 1 1/2" blade. **10 FOR \$1.17. EACH 13¢**

B7895. Fig. G. Midget set screwdrivers. For set-screw knobs and balancing trimmers. Overall length, 4 3/8". Hardened 2 1/4" blade. Amber handle with clip. **10 FOR 70¢. EACH 8¢**

B7896. 6"L. 3 1/4" blade, less clip. **10 FOR 97¢. EACH 11¢**

Average shipping weight of above screwdrivers, 1 lb.

HANDY RADIO TOOLS



B7739. Fig. A. Special flexible shaft screwdriver. Offers access to screws in awkward, out-of-the-way places. Insulated movable screw locator. 8 3/4" long. **NET 88¢**

B7719. Fig. B. A popular kit of three screwdrivers in leatherette holder for wall mounting. Blades measure 5 1/2", 3 1/2", 2 1/4". Shpg. wt., 1 lb. **NET 38¢**

B6483. Fig. C. Mueller "Snapper" may be used to start nuts and screws in out-of-the-way places. Push-button top opens and closes universal clip. **Wt., 1 lb. Red. NET 38¢**

B6484. Black **NET 38¢**

B5470. Fig. D. Screw holding clip for any screwdriver. Sets of 3 sizes to fit all screwdrivers. **PER SET OF 3 10¢**

A.C. TRI-EXTENSION



A convenient, 3-way extension tap of molded bakelite. Steel plate protects back. Supplied with six-foot approved rubber cord and bakelite plug cap. Underwriters' approved. Shpg. wt., 1 lb.

B3426. NET **24¢**

NEW PRES-TO OILER

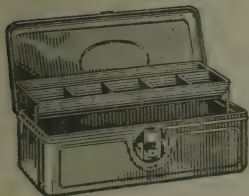
A handy general-purpose oiler made like a fountain pen. For all small equipment. Depress point to oil; release to stop. Transparent reservoir. With oil supply. Shpg. wt., 8 oz.

B1621. NET **38¢**



Values in POPULAR TOOLS

RADIO SERVICEMEN'S TOOL CHESTS



An all-purpose Utility Chest, Service Kit, or Tackle Box with double section detachable automatic-lift tray for housing tools, small parts, etc. 13 3/4" long, 4 1/2" deep, 6 1/2" wide. Made of heavy gauge steel with green mar-proof enamel finish. Spill-Proof lock automatically latches cover when closed—prevents contents from spilling. Has 12" embossed rule on front edge of cover. Absolutely watertight. With key. Shpg. wt., 3 lbs. **B16125. NET. 69c.**

19" UTILITY CHEST

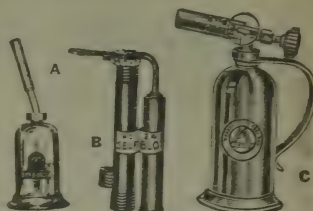
Made of heavy gauge steel. Will hold long-handled tools, folded casting rods, or quart thermos bottle. Has loose tray with movable partitions. Size, 19" x 6 1/2" x 6". 12" rule on cover. Nickel-plated catches and lock with key. Green enamel finish. Wt., 6 lbs. **B16126. NET. \$1.10**

19" DELUXE CHEST

Lift-out tray chest of heavy 22-gauge steel with double-lock seams. Has heavy reinforced corner irons. Continuous hinge eliminates springing. Patented Padlock Eye, plus regular key lock, permits double locking. Ripple grey finish. Size: 19" x 7" x 7". Shpg. wt., 8 lbs. **B16127. NET. \$2.20**

LENK QUALITY BLOW TORCHES

B6224. Fig. C. Features flame control, shut-off valve, and non-clogging burner. Extremely simple to operate. Control regulates flame size. Fool-proof design and construction; self cleaning. Produces a 2000° F. flame. Uses gasoline. Generates quickly from an asbestos-filled drip-cup. Height 7 1/2 inches; diameter at base 3 inches. Shpg. wt., 3 lbs. **NET. \$1.30**



B6223. Like above in construction and appearance, except uses alcohol for fuel. Develops hot blue flame free of soot and smoke. For use wherever gasoline is not readily available. Tank of heavy gauge seamless brass. Wt., 3 lbs. **NET. \$1.47**

B6221. Fig. B. No. 24 Blowtorch. This efficient torch is entirely automatic in operation. Uses alcohol for fuel. Made of nickelplated brass. Solid leakproof base. Has copper heat conductor. Size, 5 1/2" x 2 1/4" x 1". Shipping wt., 2 lbs. **NET. 69c.**

B6226. Fig. A. Entirely automatic gasoline hand torch. Flame temperature over 2000° F. Has priming cup. No pumping or blowing necessary. Ideal for fusing or brazing heat. Will operate in any position. Shpg. wt., 2 lbs. **NET. 72c.**

WALSCO STAPLE DRIVER



New stapling tool automatically staples wires in corners, behind pipes, into moldings, and many other places not accessible with hammer and staples. Also enables stapling of wires to hard surfaces, such as plaster, mortar and even concrete. Staple enters ordinary surfaces with single stroke of plunger. Staple depth can be regulated to avoid damaging wire insulation. Magazine holds 23 staples for wire up to 1/4 inch in diameter. Can be easily and quickly loaded. Trigger-operated feeding mechanism controls staples leaving magazine. Rust-proof finish. Includes one box of staples. Size: 19" x 7" x 7". Shpg. wt., 2 lbs. **B7694. NET. \$2.97**

B7695. DeLuxe Chromium-Finished Model. \$3.82

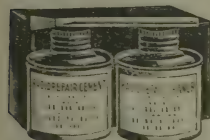
B7696. WalSCO Steel Staples for above. Covered inside with insulating lacquer. Box contains 10 strips of 23 staples each. Assorted colors: ivory, brown, blue. **Box of 230. NET. 24c.**

10 Boxes For. \$2.00

WALSCO CABINET REPAIR KIT



Compact kit for patching damaged cabinets. Caps of all stain and enamel bottles have built-in brushes. Kit contains 6 bottles: 2 shades of Spirit Enamel, Lacquer Enamel, Spirit Stain, Polish Renewer and French Varnish. Also Finishing Paper, Steel Wool and Polishing Cloth. Wt., 3 lbs. **B7697. NET. 97c.**



REPAIR CEMENT

Used for repairing loose coils and speaker cones. Rapid drying. Kit consists of one can of cement, one can of thinner, and a brush. **B2930. Wt., 1 lb. NET. 29c.**

BAKELITE CEMENT

For cementing bakelite to bakelite or to other materials. Handy for radio repair and building. **B5552. 2 Oz. Can. NET. 21c.**

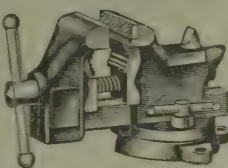
B5553. 8 Oz. Can. NET. 66c.

SCREW EXTRACTORS

For removing broken screws, bolts, studs, and pipes. Simply drill hole in broken piece, insert extractor, turn to left, and broken screw comes out with threads undamaged. Set of four extractors; sizes: 1/4", 3/8", 1/2", and 5/8". Wt., 2 lbs. **B7721. PER SET. 98c.**

SWIVEL BASE BENCH VISE

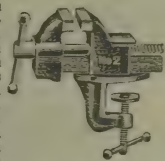
Superior quality bench vise with swivel base that locks in any position. Removable pipe jaws include a small third jaw to prevent bending of pipe. Fitted with removable tool steel facings with die cut corrugations, and cutting wedge. 3" jaws open, 3 1/2". Pipe capacity, 1/2" to 1 1/4". Shpg. wt., 16 lbs. **B7726. NET. \$2.47**



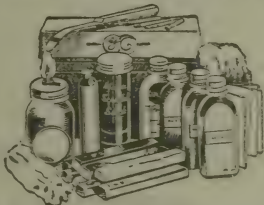
PORTABLE CLAMP-ON VISES

Strong sturdy vise with jaw faces carefully machined to insure firm grip. Jaws close squarely with equal pressure on both ends. Jaw width, 2". Jaws open, 5". Will clamp on benches up to 2 1/2" thick. Has handy anvil back. Steel slide bar precision fit to prevent jaws from wobbling. Fine enamel finish. Ideal for carrying in tool kit. **B7727. 2" Jaws. Shpg. wt., 3 1/2 lbs. NET. 98c.**

B7728. 1 1/2" Jaws. Shpg. wt., 2 lbs. NET. 49c.



G.C. CABINET REPAIR KIT



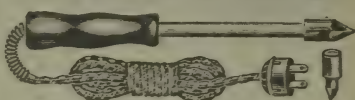
An inexpensive and practical kit for repairing dents, scratches, or nicks on wood, plastic, or bakelite cabinets, knobs, etc. Complete kit consists of: an assortment of 9 shades of shellac sticks; bottles of light and dark oil stain; metal shading lacquer; polish; Magic Scratch Remover; alcohol lamp; spatula; touch-up brushes; steel wool; sandpaper; and wiping cloth. In handy box. Shpg. wt., 4 lbs. **B7648. NET. \$1.91**

HANDY SCRATCH REMOVER

Handy scratch remover for use in touching up scratches and marred surfaces on receiver cabinets and other articles of furniture. Convenient stick has filler in one end for building up scratch to level of original finish. Other end is a combination polish and stain. Wt., 6oz. **B7600. 5 for 95c. NET EACH. 22c.**



SPECIAL IRON VALUES



55 WATT 2-TIP IRON

With wire-wound element in a ceramic tube. Two types of tips are supplied with iron to handle all work from fine soldering to tinning of chassis bases. Tips are 1 1/4" long, 3/8" and 5/8" dia. With 5 foot heater cord and rubber plug. Shpg. wt., 3 lbs. **B6005. NET. 59c.**

100 WATT IRON

Has one 7/8" dia. replaceable screw-on type copper tip. Black insulated handle. With 6 foot heater cord. Shpg. wt., 3 lbs. **B6006. NET. 95c.**



MAGIC STYLUS SOLDERING PENCIL

Ideal for soldering small parts in hard-to-get-at corners. Heats quickly. Insulated handle with cork finger guard, stays cool. With 5 ft. cord. Underwriters' Approved. Shpg. wt., 2 lbs. **B6150. 110 Volt A.C. or D.C. B6151. 6 Volt D.C. (Storage Battery.) EACH. 72c.**

25 WATT PENCIL

B6004. 110 Volt A.C.-D.C. Extra-heavy-duty soldering pencil. Has 1/4" tip. Insulated, mica-covered element. With 3 tips, 6 ft. rubber cord, and stand. **Shpg. wt., 2 lbs. NET. 88c.**

B6003. 40 WATT PENCIL. 110 Volt A.C.-D.C. Has 3/8" tip with set screw; mica insulated element; 6 foot cord. Shpg. wt., 2 lbs. **NET. \$1.15**



JUSTRITE SOLDERING IRON AND BLOWTORCH

Torch and iron combined; works 30 min. with valve wide open on one filling of 1 1/2 oz. of gasoline, naphtha, or benzine. Heavy brass shell to withstand high pressures. Bakelite casing over shell for cool grip. With two 3/4" tips. 12 3/4" long. Wt., 1 1/4 lbs. **B6220. NET. \$2.95**

B6225. Justrite All-Purpose Soldering Set. Includes above iron, solder ladle, flame reducer, angle connection, and 5 pyramid and chisel tips of various sizes. **\$4.65 NET.**

See next page for other soldering irons.

SOLDERING IRONS & ACCESSORIES

KNIGHT SOLDERING IRONS



UNDERWRITERS' APPROVED—WITH STAND

Here are splendid values in efficiently designed, sturdily built soldering irons at exceptionally low prices. These new Knight Soldering Irons are Underwriters' Approved with extra safety factors built in. Special features include: replaceable screw-on type hard drawn copper tip; black rubberoid handle, shaped for easy gripping; tough, well-finished nickel-plated case; 6-foot cord with spring cord protector and unbreakable rubber plug. A convenient metal stand is included with all models. These quality irons are built to give dependable service and to stand up under heavy use. Operate from AC or DC. Wt. each, 3 lbs.

75 WATT IRON

B6125. For 110-120 Volts. NET. **\$1.32**

B6126. For 220-250 Volts. NET. **\$1.47**

100 WATT IRON

B6127. For 110-120 Volts. NET. **\$1.91**

B6128. For 220-250 Volts. NET. **\$1.98**

KESTER SOLDERS

Compounded of the highest grade tin and lead. Flux filling assures perfect permanent joints free from corrosion. Aluminum solder absolutely holds aluminum. Save money—buy the handy one or five pound spools.



Quantity	ROSIN CORE	ACID CORE	ALUMINUM
Per Tin	No.	No.	No.
1 lb. spool	B6178	B6176	B6180
5 lb. spool	B6177	B6175	B6179
	\$3.00	\$3.00	\$1.96

SOLDERING PASTE



A new improved soldering paste. Does a clean, non-corrosive job of soldering. Uniform quality and uniform fluxing strength; ideal for radio work.

B6181. PER TIN. **12c**
10 FOR. **\$1.05**

TINNING BLOCK

Cleans and "tins" soldering irons or coppers very quickly. Replaces ordinary salammoniac. Won't crumble or corrode. Convenient to use.

B6185. 1/2 lb. NET. **15c**
B6186. 1/2 lb. NET. **25c**
B6187. 1 lb. NET. **44c**

DRAKE SOLDERING IRONS AND ACCESSORIES



STANDARD MODELS—"GOOD"

Underwriters' Tested and Approved. A sturdy dependable iron for all shop or Service requirements. With an "Easy-Grip", non-tiring wood handle. Heating elements are of highest-grade nichrome wire wound on genuine amber mica; reach soldering heat quickly. Removable plunger type tip with set screw. Tips nickel coated to prevent corrosion. With 6 foot approved cord fitted with soft rubber plug. For 110 V. AC or DC operation.

B2235. 60 Watt. Length 12"; tip diameter 3/8". Ideal for any light solder work. Wire element extends into tip for faster heating. Shpg. wt., 1 lb. NET. **65c**

B2203. 80 Watt. Length 13"; 3/8" tip. Recommended for any light radio work. With "Magic Cup" stand. Wt., 1 1/2 lbs. NET. **\$1.85**

B2204. 100 Watt. Length 12 1/2"; 3/8" tip. Recommended for medium-heavy radio work. With "Magic Cup" stand. Wt., 2 lbs. NET. **\$2.20**

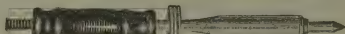
DRAKE 7-INCH STAND WITH "MAGIC CUP"



This new idea in a soldering iron stand saves time and keeps iron in best working condition. Sturdy metal stand has "magic cup" built in at one end. Just insert tip of iron into cup, twist, and oxide is removed. Shpg. wt., 1 lb.

B2209. NET. **29c**

B2206. As above, but less cup. NET. **15c**



DELUXE MODELS—"BETTER"

High quality irons designed and constructed for light duty production work. Approved by Underwriters' Laboratories. Finest grade nichrome wire element wound on amber mica. Nickel-plated housing. Copper tips are nickel-coated to prevent corrosion. Aircooled baffle plates mounted at rear of element housing keep handle cool at all times. Spring guard prolongs life of heater cord. Larger surface for rapid radiation of heat provided by cooling fins. With 6 foot heater cord, soft rubber plug, and 7" soldering stand. For 110 V. AC or DC. Shpg. wt., 2 lbs.

B2199. 125 Watt. Length 12"; tip diameter 3/8". Extra hot iron for Service-men. NET. **\$2.65**

B2205. 200 Watt. Length 14"; tip diameter 3/8". For auto radio installation work, lamp wiring, home repairs, light factory work, etc. NET. **\$3.89**



DRAKE "400" MIDGET

The perfect iron for all soldering jobs that require precision work to be done in close quarters. Especially suited for service work on midget sets, electrical meters, hearing aids, etc. Ideal for connections close to chassis, coil shield work, and other light jobs in home or shop. Length, 9"; weighs only 8 oz. 60 watt element with 1/4" tip. Nichrome wire wound on amber mica. With 6 ft. cord, rubber plug, and "Magic Cup" soldering stand. Shpg. wt., 2 lbs.

B2198. NET. **\$2.35**



INDUSTRIAL MODELS—"BEST"

Heavy duty irons built to withstand the constant hard usage of industrial service. Especially suited for auto repair work, amplifier and transmitter soldering sheet metal work, and many other production jobs requiring a heavy iron. Removable element wound with nichrome wire on high grade amber mica. Length, 13"; tip dia., 3/8". With 6 ft. cord, rubber plug, and "Magic Cup" stand. (Higher wattage irons with replaceable elements available up to 200 watts; write for prices.) Shpg. wt., 3 lbs. each.

B2200. 80 Watts. NET EACH **\$5.59**
B2201. 100 Watts.
B2202. 140 Watts.

B2197. Replacement element for above irons. Specify wattage. NET. **\$2.94**

DRAKE HEAT CONTROL

A variable heat control unit for keeping tips properly tinned and iron warm while not in use. Just flip the toggle switch to heat iron for immediate use. Protective shield prevents fire and accidental burns. Will keep any iron rated 100 watts or less up to desired heat. Has outlet socket and 4 ft. cord with plug. For 110 Volts AC or DC. Cadmium plated. Shpg. wt., 3 lbs.

B2208. Type 300H. NET. **\$2.35**

B2207. Type 300. Same as above \$2.06 but without shield. NET. **\$2.06**



JACKSON SOLDERING IRONS

A high grade line of electric soldering irons. Elements are wound on amber mica insulation over steel core. Supplied with plunger tips. Furnished with 6 foot cords. 1 1/2 lbs. each.

B6000. 75 Watt. Has 3/8" copper rod tip with set screw. Nickel-plated tube. NET. **\$1.76**

B6001. 100 Watt. Has 3/4" copper tip. 12 1/2" long, with removable black handle. NET. **\$2.40**



GARDINER ROSIN CORE SOLDER

A dependable, rosin-core solder developed especially for delicate electrical and radio work. 3 oz. can.

B6183. PER CAN. **12c**
B6184. 1 LB. SPOOL. **58c**



ICA SOLDERING IRONS

Element is of the highest quality resistance wire. Will heat in three minutes. Handle remains cool. Plunger tip is easily removed for cleaning or replacement. Stand supplied free.

B5520. 60 Watt. Developed for \$2.05 radio work. Wt., 2 lbs. NET.

B5522. 85 Watt. A good general-purpose iron. Shpg. wt., 2 1/2 lbs. NET. **\$2.45**

B5521. 115 Watt. Heavy Duty type; has 3/8" plunger type tip of adjustable length. Shpg. wt., 3 lbs. NET. **\$2.95**

SOLDERING IRON TIPS

High quality replacement plunger type copper tips. Fit all standard irons. Shpg. wt., 1/2 lb. NET. **EA.**

B5997. Size 5/16x2 1/2" **18c**
B5998. 3/8x3 3/4" **18c**
B5999. 1/2x3 1/4" **29c**



AMERICAN BEAUTY IRONS

Type 3158. 200 Watts. For medium-heavy factory and production work. Length, 13 3/4"; tip dia., 3/8". Baffle plate keeps handle cool. Chrome-plated metal parts. For AC or DC. With 6 ft. cord and stand. Shpg. wt., 3 lbs. NET. **\$6.75**

B2053. NET. **\$6.75**

B2054. Extra tip for above. NET. **75c**

Type 3138. 100 Watt. Adapted for production work on radio, ignition, telephone, etc. 16 oz.; length, 12 1/2"; tip dia., 3/8"; 6 foot cord. Highly polished, chrome-plated metal parts. Complete with stand. Wt., 2 1/2 lbs. NET. **\$5.65**

B2000. NET. **\$5.65**

B2002. Extra tip for above. NET. **39c**

Type S-76. 50 Watt. Light, compact. Heats quickly, handle stays cool. 6 oz.; length, 11 3/4"; screw type removable tip, 3/8". 6 foot cord and holder. Wt., 2 1/2 lbs. NET. **\$3.45**

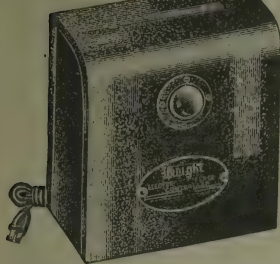
B2001. NET. **\$3.45**

B2003. Extra tip for above. NET. **21c**

NOTE: For additional listing of soldering irons turn to page 187.

ELECTRIC FENCES & ACCESSORIES

KNIGHT 110 VOLT A.C. HIGH-LINE ELECTRONIC FENCE CONTROLLER



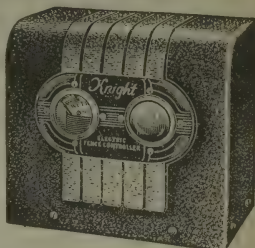
- Complies with the most rigid safety regulations.
- Designed and built to meet all state regulations.
- No moving parts; indoor or outdoor installations.

Designed and built to equal or exceed in safety, the construction and performance of any alternating current fence controller on the market. Equipped with exceptional and exclusive new features. No batteries to buy. Just plug in to 110 V. AC socket, and your controller is ready for long, trouble-free service. Will not harm animals or humans. Has numerous outstanding features. Operates on dry, hot days as well as rainy days. There are no moving parts to cause mechanical breakdowns. Incorporates specially built current-limiting type transformer for maximum safety and efficiency. Current is controlled by two high-resistance, simple, two-element tubes. Current limiting resistors in the circuit mean added safety. Built-in Signal Light tells at a glance the operation of the controller and the condition of the fence. Weather-proof and dust-proof container. Approved for indoor or outdoor installation and built to meet all state regulations. Shielded against radio and telephone interference. Complete with setting-up instructions. Includes built-in lightning arrester. Attractive baked crystalline finish prevents rusting and corrosion. Shpg. wt., 16 lbs.

B10968. NET.....

\$12.52

KNIGHT 6 VOLT DELUXE MODEL ELECTRIC FENCE CONTROLLER



- Complies with all State and safety regulations.
- Weather proofed and completely self-contained.
- Automatic; effective in all kinds of weather conditions.

The Electric Fence Controller that leads the field in everything a fence controller can offer. Special Meter tests both fence condition and battery. Meter operated by a rotary switch at the bottom of controller. Signal light with bayonet base indicates at all times that the controller and fence operate properly. Has special high-low output circuit. Automatic; effective in all kinds of weather. Furnished with built-in lightning arrester, ground clamp, hook-up wire, neon tester and setting up and operating instructions. Built-in battery compartment will take either "Hot Shot" battery or dry cells. Shpg. wt., 16 lbs.

B10967. NET. Less Battery.....

\$11.82

6 VOLT STANDARD ECONOMY MODEL

A real value. Effective in all kinds of weather. Has tungsten breaker points. Each part is specially plated. Filtered against radio and telephone interference. Dust-proof cabinet is finished in baked crackle enamel. For outside and inside installation. Meets all state regulations. Uses "Hot Shot" battery or dry cells. With detailed, easy-to-follow instructions. Shpg. wt., 11 lbs.

B10969. NET. Less Battery.....

\$6.65

A COMPLETE SELECTION OF ELECTRIC FENCE ACCESSORIES



B16040. Ground Rod. Copper plated steel rod $\frac{1}{2}$ " dia., 4 ft. long. Assures effective ground. Wt., 5 lbs. (Shipped by express only.) **NET.....**

28c

B10953. Lightning Arrester for Fence Controller. When properly installed gives absolute protection. **NET.....**

15c

B10954. Utility Tester. Neon tests fence circuit for "opens" or "shorts." **NET.....**

45c



B10950. High grade knob type glazed porcelain insulators for insulating electric wire from fence posts in Fence Controller systems. **100 FOR.....**

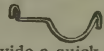
95c

B10951. Dependable insulators for insulating electric wire at fence corners. **NET EACH.....**

2 1/2c

B10952. Special Insulator Kit. Consists of 50 fence post insulators and 4 corner post insulators. Complete with leather washers. Shpg. wt., $5\frac{1}{2}$ lbs. **NET.....**

63c



B10955. Convenient spring-steel clips that promote a quick, easy method of fastening electric fence wire to insulators. **PER 100.....**

39c

DELUXE ACCESSORY KITS

B10956. All insulators and accessories for installations using 100 wood posts. **WT., 16 lbs. NET.....**

\$2.65

B10957. All insulators and accessories for electric fence using 100 steel posts. **WT., 16 lbs. NET.....**

\$2.79



B10958. Fence Sign. Meets Wisconsin State specifications for electric fence identification. Size 4" x 8". Clamps to fence. **NET.....**

5c

B10959. Gate Fastener. Equipped with spring. Insulated handle prevents shock. Hook on one end and spring on other. Spring holds wire tightly in place. **NET.....**

15c

B10960. DeLuxe Gate Handle. Water-proof and shock-proof. Use when opening gate. **NET.....**

18c

ARC WELDER ACCESSORIES EASEWELD RODS

General purpose mild steel welding rods. Used on iron, steel, cast iron, etc. For general work and experimental welding. Use $\frac{3}{32}$ " or $\frac{1}{16}$ " dia. rods for "Dynamic" Arc welders. Other sizes are for use on Industrial model.

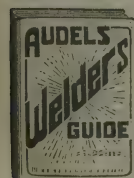
Cat. No.	Dia.	Pieces per Lb.	PER LB.
B10985	$\frac{3}{32}$ "	8	28c
B10986	$\frac{1}{8}$ "	12	34c
B10987	$\frac{3}{16}$ "	28	42c
B10988	$\frac{1}{4}$ "	60	60c

SPEEDWELD RODS

Mild steel rod for same metals mentioned above but will give a deeper penetration. For welding operators with more experience who can make deeper welds. Used with welders at right.

Cat. No.	Dia.	Pieces per Lb.	PER LB.
B10989	$\frac{3}{32}$ "	11	20c
B10990	$\frac{1}{8}$ "	18	22c
B10991	$\frac{3}{16}$ "	36	28c

AUDELS WELDERS GUIDE BOOK

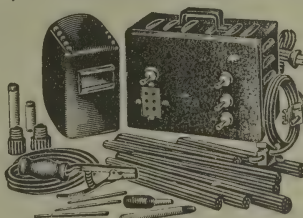


Every welder should own this book. Contains clear, concise, practical information, pointers and facts relating to modern practice in all branches. Easy to read and understand—over 400 pages fully illustrated—flexible cover—pocket size. A ready reference that answers your questions accurately. Explains working methods, construction and maintenance of modern welders and welding apparatus. You will want this timely book of practical information. **B10993. Postpaid in U.S.A.....**

98c

We can supply Arc Welders with 150, 200, and 300 ampere outputs. Send us your requirements for prompt quotations on all types of welding equipment.

TRINDL EASY-TO-OPERATE ARC-WELDERS



SUPER INDUSTRIAL HEAVY-DUTY ARC WELDER

A De Luxe Industrial type Arc Welder. Heavy-duty type for all welding work, such as on cylinder blocks, bumpers, brackets, fenders, tanks, wheel tractors, plows, all other farm machinery, etc. **Welds metals up to $\frac{1}{2}$ " thick.** Will handle a $\frac{3}{32}$ " shielded arc welding rod directly in the holder. Has 32 heat ranges to apply to all types of welding requirements. The machine has an improved vernier control panel which is used in the more expensive models. The vernier control gives greater selectivity, for a variety of welding jobs. 12 to 125 ampere output. Conveniently portable; weighs only 72 lbs. Economy of operation brings cost down to about five cents per hour. For light and heavy welding.

COMPACT AND EFFICIENT

Built very compactly; unit measures only 11" x 10" x 14". Works with remarkable efficiency on all kinds of metal when brazing, soldering, or welding. Each unit is shipped complete with five pounds of welding rod, ground cable and clamp, spring clamp electrode holder, headshield, 2 special fuses, carbon, flux, etc. Complete detailed instructions supplied are actually a course in welding. Shpg. wt., 90 lbs.

B16011. For 110 V., 50-60 cycle A.C.

B16010. For 220 volt, 50-60 cycle A.C.

\$46.95

EITHER MODEL.....

Terms: \$4.70 down, \$5.81 monthly, for 8 mos.

DYNAMIC SUPER-CHARGED LOW-COST ARC WELDER

Here is the low-cost answer to those innumerable welding jobs you have been putting aside. This handy arc-welder will weld cylinder blocks, bumpers, fenders, tanks, and practically all metal farm implements. It is no longer necessary to discard perfectly usable machinery because some part has broken. Just plug the Dynamic Welder into a 110 volt 60 cycle A.C. socket, and weld the broken part in a few minutes time. Works on iron, steel, tin, brass, etc. Does carbon arc and metallic arc welding. Holder takes $\frac{3}{32}$ " shielded arc welding rod. **Welds metals up to $\frac{1}{4}$ " thick.**

VARIABLE HEAT CONTROL

Convenient terminal outlets for Low, Medium, High, and Very High heat welding. Settings will depend on type of welding being done. Range of four settings is 30 to 75 amperes. Each unit is shipped with assortment of rods for all types of welding. Complete Dynamic Arc-Welder includes ground clamp, ground cable, spring type electrode holder, helmet, and detailed instructions. Size, $7\frac{1}{2}$ " x $9\frac{1}{2}$ " x $11\frac{1}{2}$ ". With convenient mounting feet. For 110 volt, 60 cycles. Shpg. wt., 35 lbs.

B16012. Complete with helmet. NET.....

\$22.29

B16013. 220 V., 60 cycle.....

\$24.75

B16014. 110 V., 50 cycle.....

\$25.50

B16015. 220 V., 50 cycle.....

\$26.00

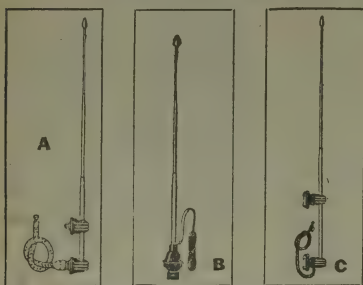
B16016. 110 V., 25 cycle.....

\$35.75



AUTO RADIO AERIALS *Knight*

ICA LIFETIME RUSTPROOF AUTO AERIALS



SIDE COWL TYPE. Fig. A

Newly-designed aerials made of Admiralty Brass with triple-chrome plating. Absolutely guaranteed rustproof. Tubes are scientifically tapered on ends to prevent moisture and dust from entering. Patented shim contacts at all telescopic joints eliminate rattling and vibration. Supplied with "static discharge" ball on tips. Insulators are of sturdy bakelite construction. With 36" shielded low-loss cables. Av. wt., 2 lbs.

- B16070. "GOVERNOR."** 2-section. 23" to 49". **NET.....\$1.47**
B16071. "CHANCELLOR." 3-section. 20" to 65". **NET.....\$1.73**
B16072. "COMMODORE." 3-section. 23½" to 72". **NET.....\$1.91**
B16073. "PRESIDENT." 3-section. 31½" to 96". **NET.....\$2.35**
B16074. "COUNSELOR." 4-section. 32" to 108". **NET.....\$2.91**

CONVERSION KIT

B15990. Converts above (except B16074) to match contours of Chrysler, De Soto, Dodge, and Plymouth cars. **NET.....29c**

HINGE TYPE. Fig. B

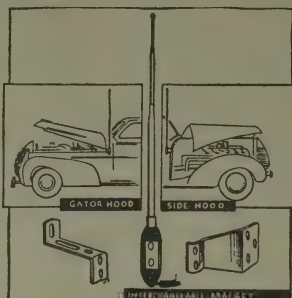
Easily installed on hinge pin of car door. No drilling. Triple chrome-plated. Rustproof. Rattleproof. With "static discharge" ball on tip. Rubber insulators. Heavy-duty lead-in.

- B16075. "CAPTAIN."** 2-section. 25" to 50". Shpg. wt., 1 lb. **NET.....\$1.15**
B16076. "CORPORAL." 3-section. 23½" to 75". Shpg. wt., 1½ lbs. **NET.....\$1.73**
B16077. "ADMIRAL." 3-section. 31½" to 96". Shpg. wt., 2 lbs. **NET.....\$2.06**

UNIVERSAL COWL MOUNT. Fig. C

Made of Admiralty Brass, triple-chrome plated. Rustproof. Easily mounts on side of door at cowl. No drilling. Bakelite insulators. Tips have "static discharge" balls. With lead-in.

- B16080. "GUARDSMAN."** 3-section. Extends 23½" to 72". Wt., 2 lbs. **NET.....\$2.32**
B16081. "COLONEL." 3-section. Extends from 31½" to 96". Wt., 2½ lbs. **NET.....\$2.91**



UNI-MOUNT UNDERHOOD TYPE

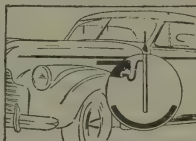
High-grade auto aerials constructed of the finest Admiralty Brass with triple-chrome plating. Guaranteed rust-proof for life of car. Equipped with "static discharge" ball tip. Noiseless-rattleproof construction. Each aerial is supplied with dual brackets. Special design permits either underhood or alligator-type mounting. Easily installed with self-tapping screws. No drilling of holes on body of car. Comes with shielded, low-loss lead-in cable.

- B16083.** The "WASP." 2-section telescopic. Extends from 23" to 49". With dual brackets and shielded, low-loss lead-in. **\$1.15**
B16084. The "TRAVELLER." 3-section telescopic. Extends from 20" to 60". Dual mounting brackets and shielded lead-in. Shpg. wt., 2 lbs. **\$1.73**
B16085. The "CLIPPER." 3-section telescopic. Extends from 23½" to 72". Dual mounting brackets, shielded, low-loss lead-in. Wt., 2 lbs. **\$2.06**
B16086. The "NEW YORKER." 3-section telescopic. Extends from 31½" to 96". With dual mounting brackets and shielded, low-loss lead-in. Shpg. wt., 2½ lbs. **\$2.35**

DISAPPEARING COWL AERIALS

Disappears out of sight between side of cowl and kick of pad of car. Manually operated. Easily and quickly installed. Single hole mount. Made of Admiralty Brass tubing, triple-chrome plated. Noiseless, rattleproof, and rustproof. Will not interfere with vision. Has "static discharge" ball on top. Equipped with 36" length of shielded, low-loss lead-in.

- B16088. "REGAL."** 2-section. Extends from 3" to 50". Wt., 1½ lbs. **\$2.06**
B16089. "DE LUXE." 3-section. Extends from 3" to 60". Wt., 2 lbs. **\$2.35**



KNIGHT AUTO AERIALS

SIDE COWL AERIALS

Mount on side cowl of car. Triple-chrome plating absolutely prevents rusting. Positive force spring contacts on all telescopic joints eliminate rattling. Sturdy bakelite insulators. Aerials are supplied with 30" low-loss shielded lead-in cables. Brass inserts provide perfect fit. Splendid values at these low prices. Average shipping weight, 2 lbs.

- B16055.** 2-section telescopic. 23" to 49". **\$1.19**
B16056. 3-section telescopic. 20" to 60". **\$1.30**
B16057. 3-section telescopic. 23½" to 72". **\$1.59**
B16058. 3-section telescopic. 31½" to 96". **\$1.98**



UNDERHOOD COWL AERIALS

Telescopic; of heavy Admiralty Brass and stainless steel. Triple-chrome plated and thoroughly rustproof. Two shorter models have single mounting bracket; two longer models have two brackets. All have low-loss lead-in cables. Easily installed in any car. Av. shpg. wt., 2 lbs.

- B16060.** 2-section. Extends from 23" to 49". **95c**
B16061. 3-section. Extends from 20" to 60". **\$1.31**
B16062. 3-section. Extends from 23½" to 72". **\$1.55**
B16063. 3-section. Extends from 31½" to 96". **\$1.89**



HINGE-TYPE AERIALS

Triple-chrome plated over heavy brass and stainless steel. Telescopic. Rustproof and rattleproof. Mount directly on hinge-pin of car door. Easy to install—no drilling necessary. Offers highly efficient signal pickup. Supplied complete with heavy-duty lead-in cables. Wt., 2 lbs.

- B16065.** 1-section. 39" long. 36" cable. **45c**
B16066. 2-section. 25" to 48". 36" cable. **65c**
B16067. 3-section. 20" to 62". 36" cable. **\$1.15**
B16068. 3-section. 23½" to 72". 36" cable. **\$1.35**



AERIAL BOOSTER COILS

Connects in series with aerial lead-in to increase signal strength. Shpg. wt. 3 oz.
B5947. For any type auto set.
B5948. For Motorola sets; with special fittings.
EACH.....24c



ANTENNA CONNECTOR

For Auto Radio Sets, to connect antenna lead to set.
B6254.
DOZ. 30c. EACH....4c



JUMBO FUSE HOLDER

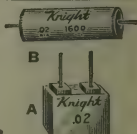
A large size replacement type fuse holder. Measures 2½" long x ½" dia. Takes 3AG standard fuses.
B6665. 10 for 89c. **NET EACH...10c**



VIBRATOR CONDENSERS

Oil-impregnated. In shielded cans. Wkg. V., 1600 D.C. Units marked * have one lead. Wt., 4 oz.

- | No. | Fig. | Mfd. | Size | EACH |
|-------|------|------|--------|----------------------|
| B7860 | A | .01 | 1½x1½" | 22c |
| B7861 | A | .02 | 1½x1½" | |
| B7863 | A | .007 | 1½x1½" | |
| B7863 | A* | .01 | 1½x1½" | |
| B7864 | A* | .02 | 1½x1½" | 10 For \$1.98 |
| B7865 | B | .01 | ½x2" | |
| B7866 | B | .02 | ½x2" | |



10% DISCOUNTS IN LOTS OF 6

I.C.A. SHIELDED LOW-LOSS AUTO LEAD-IN CABLE



Flexible cable, shielded loom protected, covered overall with black processed braid.

- No. Length Terminal Type NET**
B5930. 2 Ft. Male Connector & Gnd. Lead 32c
B5931. 2 Ft. Male & Female Connectors. 32c
B5933. 3 Ft. Male Bayonet Lug End. 32c
B5928. 4 Ft. Male & Female Connector. 38c
B5929. 4 Ft. With Chrysler Fittings. 49c
B5934. 6 Ft. Male Connector & Gnd. Lead 56c

FOR MOTOROLA SETS

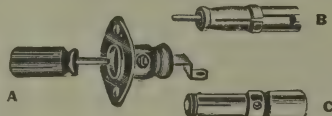
- B5937.** Hinge lead with pin plug. 38c
B5936. Cowl lead with pin plug. 38c

FOR I.C.A. AERIALS

- B5925.** 30" Side Cowl Lead. 38c
B5926. 30" Hinge Lead. 38c

Your order may consist of one type or any assortment of the I.C.A. aerials listed above.

PLUGS, JACKS, ADAPTERS



Ideal for hooking up wires leading to chassis. May also be used for other applications.

FOR MOTOROLA—Fig. A

- B5950.** Pin Plug. **NET.....6c**
B5951. Shielded Jack. **NET.....12c**

FOR BUICK

- B5954.** 5 Prong Pin Plug. **NET....12c**
B5955. 5 Prong Socket. **NET.....12c**

LEAD-IN ADAPTERS—Fig. B

- B5956.** For Philco, Motorola, etc. 15c
B5957. For Buick Sets. 15c
B5952. Fig. C. Lead-in adapter to convert Motorola lead to Delco fittings. **NET.....15c**

AUTO AERIALS AND ACCESSORIES

WARD AUTO RADIO AERIALS

POPULAR SIDE COWLS

Fig. A. Patented side cowl antenna with new EZ-IN plug construction and low-loss ceramic stanchions. Easily mounted on Torpedo and Chrysler bodies with special conversion parts supplied at no extra cost. EZ-IN plug has positive silver contact for highest conductivity. Completely shielded lower stanchion minimizes interference. "UNI-PLUG" fits all Motorola and bayonet connectors. With 36" waterproof cable.

B16100. Model 5XXL.

3-section. Extends to 66". Wt., 2 lbs. **\$1.72**

B16101. Model 8XL. 3-section. Extends 37 1/2" to 93". Wt., 2 lbs. **\$2.03**

B16102. Model 151L. 4-section. Extends 29 3/4" to 100". Wt., 2 lbs. **\$2.32**

BAKELITE STANCHION—FIG. B

Side cowl like above except that stanchions are bakelite. With EZ-IN plugs and "UNI-PLUG." Conversion parts at no extra cost.

B16103. Model B3-66. 3-section. **\$1.62**

Extends to 66". Wt., 2 lbs. **NET...\$1.91**

NEW FLEX-ANGLE FITS ALL COWLS

Model E3-68. Side cowl aerial designed to fit all types of cowl contours, including Chrysler and Torpedo bodies. Two-bolt, single-mount type for easy installation. By means of adjusting nut at base, the antenna can be adjusted through a range of 16" so that a vertical antenna can be had with any cowl design. Complete with 36" waterproof High-Q lead and positive contact Ward "UNI-PLUG" for connecting with all radios. Three section. Extends 68". Shpg. wt., 2 lbs.

\$1.97

B15000. NET.....\$1.97

NEW CROWE AUTOMATIC "RADIO-SAVER" CUTOUT



Prolongs life of car-radio vibrator and conserves all battery power for quick starting. Automatically disconnects radio, headlights, heater, etc., when you touch starter button. When starter is released, cutout automatically restores all circuits. By shutting off extras, cutout prevents voltage drop which would cause pitting and sticking of radio vibrator points. By reducing drain on battery, it insures hotter sparks and saves gas. Will pay for itself quickly. Easily installed. Complete with universal mounting bracket, hardware, all necessary leads, 30-ampere fuse, and detailed instructions for rapid installation in all makes of cars. Shpg. wt., 2 lbs.

B6747. NET.....\$1.73

AUTO RADIO FILTERS

SINGLE CAPACITORS

Metal-cased compact by-pass condensers for use on generators, ameters, horns, etc., to eliminate noise. Use 1 mfd. directly on generator, 1/2 mfd. on ammeter, horn, etc.; 1/4 mfd. on small accessories.

No.	Mfd.	Size	Ea.	10 For
B2942	1/4	3/4"x2"	12c	\$1.10
B2943	1/2	3/4"x2"	18c	1.70
B2944	1	1"x2 1/2"	20c	1.80
B2945	1	1 1/4"x2 1/2"	25c	2.10

DOME LIGHT FILTER

B2941*	1/2	7/8"x3"	25c	2.10
B2938†	1/2	7/8"x2"	19c	1.70

*Choke & condenser. †Condenser only.

TRI-MOUNT THREE PURPOSE

Fig. A. Newly designed Tri-Mount aerials are constructed for either underhood, alligator, or hinge type mounting. All three brackets are supplied with each antenna. No drilling of holes necessary on car body. Hinge bracket has a knock-out insert that permits neater installations with different sized hinge pins. With three-way 36" water-proof lead and "UNI-PLUG" for easy connection to all auto radio models.

B16105. Model T2-48. 2-section. Extends to 48". Wt., 1 lb. **NET.....\$1.15**

B16106. Model T3-68. 3-section. Extends to 68". Wt., 2 lbs. **NET.....\$1.71**

B15003. Special Bracket. For Oldsmobile Alligator. Shpg. wt., 4 oz. **NET.....9c**

B15004. Special Bracket. For Ford and Mercury Underhood. Wt., 4 oz. **NET.....9c**

SPECIAL UNDERHOOD—FIG. B

Two-stanchion type antenna for underhood mounting. Self-tapping screws eliminate drilling of unsightly holes. Colored "anti-static" ball tip. Three-section. Extends to 93". With 36" lead. Shpg. wt., 2 lbs.

B16107. Model U3-93. NET...\$2.15

WARD SIGNAL BOOSTERS

VARIABLE Z-MATCH

For any car installation. Affords signal gain of 5 to 12 decibels. Connects with the antenna lead. Covers entire broadcast range. Wt., 2 lbs.

B15001. Model A-1. NET.....\$1.15

FIXED Z-MATCH

For crowded portion of broadcast band. Affords high signal gain. With adapters. 1 lb.

B15002. Model A-8. NET.....44c

SPECIAL VALUE SIDE COWLS

3-SECTION

Made of chromium-plated Admiralty brass and polished stainless steel. Corrosion-proof and rustproof. Extends from 24" to 62". Molded bakelite mounting supports. Rubber washers prevent water seepage. Complete with 36" rubber-covered lead-in cable and fitting for standard antenna connector. Shpg. wt., 3 lbs.

B16111. EACH \$1.08. 98c.

LOTS OF 6, EACH.....98c.

2-SECTION

Similar to above, but has only 2 sections. Extends from 23" to 46". Has bakelite mounting supports. Complete with 36" lead-in cable and connector. Shpg. wt., 2 lbs.

B16110. EACH 89c.

LOTS OF 6, EACH.....79c.

FORD V-8 CONDENSERS

Especially designed to fit the Ford V-8 distributor-head bolts. Special bracket assembly matches distributor head bolts. Eliminates interference. Shpg. wt., 8 oz.

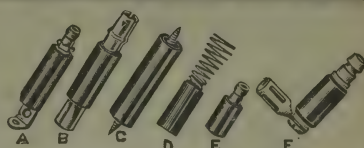
B5921. Fig. A. For 1934-36 V-8's.

B5943. Fig. B. For 1937-40 V-8's.

"A" LINE R.F. FILTER

Eliminates line noises such as hum, hash, or ripple entering auto set through "A" line or other leads. Especially required for auto sets without built-in filters. In metal case. Shpg. wt., 8 oz.

B5941. NET.....73c.



KNIGHT AUTO RADIO SUPPRESSOR UNITS

Efficient carbon, bakelite encased suppressors for use on any automobile engine. Will cut out practically all ignition interference, and improve reception. Wt., 6 oz.

No. EACH

B6990. A. Spark Plug Type. 9c

B6991. B. Distributor Type. 10 For 81c

B6992. C. Cable Type. 50 For \$3.85

B6994. E. Short Type. 10 For 81c

B6996. F. Elbow Type. 50 For \$3.85

B6997. Spark Plug Type for New Ford Cars. 50 For \$3.85

B6995. D. 50,000 ohm. Ford V8 1933-1936 models. 10 For \$3.85

B6999. D. Special small type, 50,000 ohm. For 1937, 1938 and 1939 Fords. YOUR PRICE, EACH.....9c

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WIRE-WOUND SUPPRESSORS

Extremely effective in eliminating motor noise without impairing motor efficiency. Low resistance—30 ohms. Bakelite cases. Wt., 6 oz.

B5560. Plug type. Fig. A.

B5561. Distributor type. Fig. B.

B5562. Elbow type. Fig. C.

10 For \$2.40. EACH.....27c

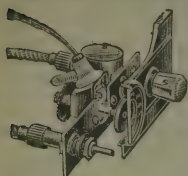
MASTER DISTRIBUTOR SUPPRESSOR UNIT

B5942. Rated at 10,000 ohms. Ideal for use where only one suppressor is needed. Shpg. wt., 8 oz.

5 For \$1.25. EACH.....27c

AUTO RADIO ACCESSORIES

STAR UNIVERSAL CONTROL



Includes all the necessary mechanism to provide clockwise or counterclockwise control, and all ratio gears to provide from 6 to 1 to 16 to 1 ratios. This mechanism with any Star panel listed below (which is extra and must be chosen for your particular car)

and your old cables are all that is necessary for a good Remote Control assembly. Wt., 2 lbs.

FOR ALL CARS—ALL RADIOS

For dash or under-dash mounting. Panel matching plate, cables, extra. Wt., 2 lbs.
B5880. Mechanism only. **\$2.06**
NET.....

STAR CONTROL ACCESSORIES

B5881. Type S-1. On-Off Switch...**59c**
B5882. Type T-1. Three stage tone control. Less on-off switch. **NET.....\$1.18**
B5883. Type T-2. Variable Tone Control. Less on-off switch. **NET.....\$1.18**
B5884. Type ST-1. 3 stage Tone Control and on-off switch. **NET.....\$1.76**
B5885. Type ST-2. Variable Tone Control and on-off switch. **NET.....\$1.76**
B5886. Type S-2. 2 stage Local Distance switch. **NET.....29c**
B5887. Type G-6. 20:1 ratio gear...**9c**

STAR AND CROWE DASH PANELS



These panels with units listed above will make complete remote control mounting kits to match your dash. Supplied with knobs, less cables. **NOTE:** Order CROWE panels with CROWE accessories and STAR panels with STAR accessories. If your car is not listed, give make and year of car, and name, model and tube lineup of set when ordering. Average shpg. wt., 1 lb.

We can supply mounting plates for new 1941 cars as soon as released. Order at prices given below. Specify make and model of your car; also name and model of radio set. The proper plate to match the dashboard of your new car will be furnished as promptly as available.

STAR No.	Car Model and Year	CROWE No.
B5850	Buick 1938.....	B6700
B5878	Buick 1939.....	B6701
B5010	Buick 1940.....	B5115
B5851	Chevrolet 1935.....	B6702
B5852	Chevrolet 1936.....	B6703
B5853	Chevrolet 1937.....	B6704
B5879	Chevrolet 1938.....	B6705
B5880	Chevrolet Std. 1940.....	B5116
B5022	Chevrolet DeLuxe 1940.....	B5116
B5007	Chrysler 1939.....	B5155
B5223	Chrysler 1940.....	B5117
B5012	De Soto 1939.....	B5160
B5032	De Soto 1940.....	B5118
B5015	Dodge 1936.....	B5163
B5855	Dodge 1937.....	B6706
B5856	Dodge 1938.....	B6707
B5889	Dodge 1939.....	B6708
B5033	Dodge 1940.....	B5119
B5860	Ford De Luxe Early '36.....	B6711
B5861	Ford De Luxe Late '36.....	B6712
B5862	Ford Std. '37.....	B6713
B5863	Ford De Luxe '37.....	B6714
B5864	Ford 1938.....	B6715
B5890	Ford Std. '39.....	B6716
B5891	Ford De Luxe '39.....	B5122
B5894	Ford Std. 1940.....	B5123
B5035	Ford De Luxe 1940.....	B5123
B5019	Hudson 112, 118 '39.....	B5168
B5040	Hudson 1940.....	B5125
B5905	Mercury 1939.....	B6724
B5039	Mercury 1940.....	B5124

CROWE AUTO RADIO CONTROLS



Tuning controls, less switch. Complete assembly may be obtained from Crowe controls listed on this page. Send name and model of car and radio, if unlisted, for quotation. 2 lbs.

Cat. No.	Gear Ratio	Mfg. No.	NET EACH
B6746	6 to 1	706-T1	\$1.03
B6736	8 to 1	708-T1	
B6737	10 to 1	710-T1	
B6738	12 to 1	712-T1	
B6739	16 to 1	716-T1	
B6740	20 to 1	720-T1	

VOLUME CONTROL UNITS

Each includes complete pilot light assembly.
B6772. Type 700-V1. Volume control only. No switch or tone control. **NET.....44c**
B6773. Type 700-V2. Volume control with combination on-off switch. **NET.....\$1.09**
B6776. Type 700-V3. Volume control with independent on-off switch. **NET.....\$1.26**
B6775. Type 700-V6. With on-off switch and variable tone control. **NET.....\$1.65**
B6777. Type 700-V33. Volume control for Philco 818, 818K, 819. **NET.....\$1.65**
B6742. Type 700-V65. Volume control and on-off switch for '37 and '38 Delco radios, and R-676 1939 model. **NET.....\$2.15**
B6743. Type 700-V31. Volume control and on-off switch for Philco 936-U, 926, 927, 928-K, 937, 937-X, 938-K, 938-KX...**\$2.65**

KNIGHT SPECIAL VALUE EXACT DUPLICATE VIBRATORS

These vibrators are exact duplicates of the vibrators they replace. Because of their popularity, the manufacturers were able to produce them in large quantities at a saving in production cost. These savings are in turn passed on to you. Carry RMA guarantee. Excellent values. Offered in the most popular replacement brackets, according to manufacturers' specifications. You will get fine service and efficient results from these quality special value vibrator units. Shipping weight, each, 2 lbs.



FOR PHILCO SETS

For all Philco auto sets prior to 1936: RT14X, 816B, T2, T3, T5, T6, PHXD, B, DP, DPV, NT15. Standard 4 prong base.
B4694. Six for \$5.40. **EACH.....92c**
For models 817, 818, 819, 819H, 826, 827, 828, 828K, 1417, 1418, 1420, 1430, 1431, 1432, 1436, 1440, 1442, 1450, 1460, 1560.
B4695. Six for \$5.40. **EACH.....92c**
For models 920, 921, 922, F1640.
B4748. Six for \$5.40. **EACH.....92c**

FOR MOTOROLA SETS

For models 34, 35, 45, 50, 60, 65, 70, 80, 90.
B4698. Six for \$5.40. **EACH.....92c**

FOR DELCO SETS

For models 2035, 4036, etc., also for United Motors 980383, 980393, and 364441 sets. Oblong; size, 2 1/2 x 1 1/2 x 1 1/4".
B4696. Six for \$5.40. **EACH.....92c**
For Delco models 626, 627, 628, 629 and 635.
B4697. Six for \$5.80. **EACH.....\$1.65**
For models R640 to R643; R664 to R669.
B4749. Six for \$5.40. **EACH.....92c**

FOR KNIGHT SETS

For H9751, H9850, L7, X6, Z4, Z5 and BA41. Has necessary five prong base. Measures 3 1/4" long, 1 1/2" diameter overall.
B4693. Six for \$7.50. **EACH.....\$1.29**

STAR No.	Car Model and Year	CROWE No.
B5868	Nash Laf. 400 '37.....	B6717
B5892	Nash Laf. 1938.....	B6718
B5893	Nash 1939.....	B6719
B5042	Nash 1940.....	B5127
B5026	Oldsmobile '37.....	B5176
B5025	Oldsmobile '37.....	B5175
B5895	Oldsmobile '39.....	B6721
B5043	Oldsmobile 1940.....	B5128
B5897	Packard 1939.....	B6723
B5044	Packard 6 and 8 1940.....	B6725
B5873	Plymouth De Luxe '36.....	B6726
B5875	Plymouth De Luxe '37.....	B6727
B5876	Plymouth De Luxe '38.....	B6728
B5898	Plymouth Rd. King '39.....	B6729
B5900	Plymouth De Luxe '39.....	B5200
B5045	Plymouth Std. 1940.....	B5201
B5046	Plymouth DeLuxe 1940.....	B5201
B5030	Pontiac 1937.....	B5188
B5031	Pontiac 1938.....	B6730
B5901	Pontiac 1939.....	B6731
B5047	Pontiac 1940.....	B5202
B5903	Studebaker Pres. '39.....	B6733
B5904	Studebaker Comm. '39.....	B6734
B5048	Studebaker Pres. and Comm. 1940.....	B5203
B5049	Terraplane 1937.....	B5172
B5037	Terraplane 1938.....	B5173
B5111	Terraplane 1938.....	B5173
B5111	Willys 1940.....	B5186
B5888	Underdash or Post Kit.....	B6735
	Underdash Kit.....	B6735

STAR PANEL ASSEMBLIES \$1.32
EACH.....

CROWE PANEL ASSEMBLIES \$1.76
EACH.....

SPECIAL CHEVROLET PLATES



Use this plate to reinstall any 1936, 1937, or 1938 Delco, United Motors or Chevrolet radio in a 1939 or 1940 Chevrolet car. Matches dashboard. Use original control. Shpg. wt., 2 lbs.

B5001. For 1939 cars. **NET.....\$2.06**
B5112. For 1940 cars. **NET.....\$1.76**

RUBBER SUCTION CUP



B6666. With 8-32 screw 1 1/4" long. For all makes of auto antennas. **NET.....6c**
B6667. Rubber Cement for above. **NET.....9c**

MADE-UP FLEXIBLE SHAFTS

Boxed in pairs for popular auto radios. Each shaft approximately 24" long. Shpg. wt., 3 lbs.
B5150. For Arvin 7A, 9A, 18, 19, 22-A.
B5151. For Delco 631, 631A, 632.
B5152. For Philco 805, 806.
EACH PAIR.....\$1.03

SINGLE SHAFTS FOR PHILCO SETS

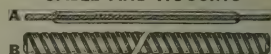
B5154. For 936, 937, 937X, 938-K, AR-6.
B5153. For 926, 927, 928K. **EACH.....50c**

FRONT WHEEL NOISE SUPPRESSOR

Eliminates static noise of car's front wheels. Easily installed.
B5488. PAIR.....**10c**
B5944. With plate for hub cap attachment. **PAIR.....18c**



CABLE AND HOUSING



Exact cable and housing used by leading factories. Housing Parkerized to prevent rust.

CABLE ONLY (A)

.130"	.150"	Lgth.	NET
B1850	B1854	18"	\$0.24
B1851	B1855	24"	.29
B1852	B1856	30"	.36
B1853	B1857	36"	.42

HOUSING ONLY (B)

B1860	B1864	18"	\$0.18
B1861	B1865	24"	.24
B1862	B1866	30"	.26
B1863	B1867	36"	.31

MALLORY REPLACEMENT VIBRATORS

FAMOUS EXACT DUPLICATE VIBRATORS

The listing below shows the complete line of Mallory 6, 12, 32, and 110 volt vibrators. This list includes vibrators to replace defective units in both automobile and regular household type radio sets. Order your vibrator by manufacturers' type number if original vibrator is a Mallory. If your model is not shown, order your vibrator from ALLIED giving make, model number, and tube lineup of set, and type number of original vibrator.

Extra Discounts: Deduct 10% from Prices Shown for Single Purchases of 6 or Assorted.

Mallory No.	Cat. No.	List Price	NET EACH	Mallory No.	Cat. No.	List Price	NET EACH	Mallory No.	Cat. No.	List Price	NET EACH
201	B4656	\$6.50	\$3.82	253	B4650	\$3.95	\$2.32	503	B4646	\$3.95	\$2.32
F204	B4699	6.75	3.97	G253	B4707	6.00	3.53	504	B4647	3.95	2.32
205	B4630	6.50	3.82	257	B4676	3.95	2.32	505P	B4685	2.50	1.47
210	B4663	7.50	4.41	253V	B4662	2.95	1.73	506P	B4686	3.95	2.32
F211	B4700	7.50	4.41	264	B4719	4.95	2.91	507P	B5132	2.50	1.47
220B	B4655	4.00	2.35	270B	B4673	5.95	3.50	508P	B5133	2.50	1.47
F220C	B4701	5.00	2.94	271HD	B4634	5.95	3.50	509P	B5131	2.50	1.47
221	B4664	3.95	2.32	271	B4661	5.95	3.50	510P	B5134	3.00	1.76
F221	B4702	4.45	2.62	273C	B4665	5.50	3.23	514	B4648	4.95	2.91
222	B4654	5.50	3.23	273D	B4666	5.50	3.23	716	B5135	4.95	2.91
F223	B4667	5.95	3.50	275	B4661	5.95	3.50	722A	B4691	4.95	2.91
224	B4631	7.00	4.12	275XS	B4636	7.50	4.41	725	B4610	5.50	3.23
225	B4658	5.95	3.50	277S	B4669	5.95	3.50	G725	B4611	6.50	3.82
226	B4657	5.95	3.50	285XS	B4687	7.00	4.12	728A	B4692	4.95	2.91
230	B4672	7.50	4.41	P285V	B4684	4.95	2.91	743	B5144	4.95	2.91
231	B4674	7.25	4.26	286S	B4641	5.50	3.23	744	B5149	3.95	2.32
235	B4675	5.95	3.50	G286S	B4708	7.50	4.41	825	B4612	4.50	2.65
H240	B4704	6.50	3.82	289V	B4642	4.95	2.91	F826	B4613	4.75	2.79
245	B4632	4.95	2.91	F290	B4709	5.50	3.23	839	B4723	3.45	2.03
245A	B4681	4.95	2.91	292	B4652	4.45	2.03	850	B5145	2.50	1.47
245SW	B5130	4.95	2.91	294	B4653	2.95	1.73	852	B5146	2.95	1.73
W245	B4682	4.95	2.91	294C	B4643	2.95	1.73	853	B5147	2.95	1.73
W245A	B4640	4.95	2.91	294SW	B4644	2.95	1.73	854	B5148	2.95	1.73
245C	B4689	4.95	2.91	F294	B4637	4.45	2.62	860	B5136	2.95	1.73
246	B4688	4.95	2.91	296	B4651	2.95	1.73	863	B4724	2.95	1.73
246A	B4722	4.95	2.91	297	B4660	3.95	2.32	868	B4733	2.95	1.73
W246	B4680	4.95	2.91	F297	B4639	4.95	2.91	869	B4734	2.95	1.73
247	B4683	4.95	2.91	302S	B4671	6.50	3.82	901M	B5137	2.50	1.47
F247	B4705	5.50	3.23	311S	B4645	7.50	4.41	903M	B5139	2.50	1.47
248	B4633	4.95	2.91	F312	B4649	7.50	4.41	951P	B5140	5.25	3.09
249	B4679	4.95	2.91	500P	B4677	2.50	1.47	952W	B5141	4.95	2.91
F251	B4706	4.45	2.62	501P	B4678	2.50	1.47	953W	B5142	4.95	2.91
				F502P	B4609	5.95	3.50	954	B5143	4.95	2.91



Use Your M. Y. Encyclopedia

See the new Mallory-Yaxley Encyclopedia for aid in selecting the proper vibrator for any set. The latest edition, listed on page 201, gives full information, including servicing hints, technical replacement data, etc. Covers thousands of models. Shows how to build an efficient, inexpensive vibrator tester. Get your copy now.

FREE VIBRATOR GUIDE

Write for a FREE copy of the Mallory-Yaxley Vibrator Guide. Contains complete listing by sets of vibrator replacements for thousands of auto radios; valuable data on vibrator and automobile set installation, noise suppression, practical servicing and testing. B4659, FREE on request.

Select the vibrator you want from set listing below. For price, see chart above which shows prices for all Mallory vibrators.

Name and Model	Mfrs. No.	Name and Model	Mfrs. No.	Name and Model	Mfrs. No.	Name and Model	Mfrs. No.
AIRLINE		DELCO (Cont.)		MOTOROLA (Cont.)		STEWART-WARNER (Cont.)	
62-166, 62-118, 6U...	253	630, 631, 632, 633,	294	30-P, 34-K6, 34-K7,	902M	R117, R118, R131,	294
102.....	299	631A.....	245A	35-N, 300, 400, 500,	903M	R133.....	285XS
87.....	286S	R6010-11-12, R6015.		180, 25N, 22S.....		R189.....	294SW
62-199.....	294			9-24, 9-24A, 25.....		1601 to 9, 143, 178.....	289V
62-202, 62-236.....	294	EMERSON	296	34, 35, 45, 50, 60, 65,		R132, 1322.....	
ARVIN		965, 667.....	222	70, 80, 90, 8-70,	901M		
15, 23, 35, 45 1st Ser.....	296	678, 101F7, 34F7.....	253V	8-80, 9-69, 19-B,			
10A, 20A, 30A, 20B,		6A.....	294	24K, Police.....			
30B, 16, 15, 25, 35,		ERLA-SENTINEL	294	77.....	230		
45 2nd Ser.....	292	5500, 10M, 11M, 100X	292	44.....	235		
18, 28, 33, 38, 7, 17,		600, 602, 603.....	221	57, 62, 75, 79, 100, 110	253T		
32, 44C, 27, 37, 39, 42	294	FADA	221	Dual 6, Twin 8.....	253		
61B, 62B, 517B, 617B,	245	101, 102, 104, 104B.....	253V	496BT1.....	246A		
627B, 527B.....	850	101, 9A.....	294				
ATWATER KENT		FIRESTONE		PHILCO			
666, 776.....	296	54, 64, R1332, R133	294	All to 1936, 816.....	500P		
126, 136, 416, 446, 556	294	TRAV-LER.....	294SW	1936 and 817, 818, 819	501P		
AUDIOLA		R1431, R143, R178.....	294	1937, 1938.....	505P		
C6, 64, 74.....	294	FORD	220B	HT11X, T10, 811.....	507P		
3356 (2nd Series).....	292	MAJESTIC 40-18805	500P	920, 921, 922, F1640.....	508P		
43, 67, 73, 4B, 6C.....	246	FT6, FT9.....	505P	38-35 (121), 38-40			
BELMONT		F1440, F1442, F1540.	508P	(121).....	510P		
661, 666, 667, 677, 881	294	F1640.....	508P	37-34, 37-624, 38-39			
660 (Vibrator only).....	220B	G. E.	271*	37-624, 38-624.....	951P		
880, 670, 680, 580.....	299	B40, C41, B52.....	253	624.....	P285V		
BOSCH		C60.....	286S	RCA-VICTOR			
140A, 45A, 45C, 160.....	271	D50, D51, D52.....	248	AR-4229.....	271*		
536, 636, 637, 524A.....	253V	FA60, FA61, FA80.....	224	BC6-6, BT6-5.....	245A		
634A, 139, 149, 169	210	C61.....	294	5M, 6M, 6M2, 8M3,			
150 (1st Series).....	271	D72, N-60, M58, M60	246	8M4, 67M1, 67M2,			
150 (2nd Series).....	294	U51, U55.....	743	67M3.....	249		
736, 737, 738, 838.....	253	45KR1A2 (M1-7630)...		M34, M105, M116.....	271*		
79C.....	294	GRUNOW	294	M107 (6V).....	253		
189HB, 189HR.....	249	614, 618, 5AB.....	273D	M101 (6 V.), M104			
(Police).....	245	625.....		(6V.), M108 (6V.)	286S		
CHEVROLET		KNIGHT		M109, H6 (Hudson)...	294		
364441, 4036, 2035.....	221	F9541, F9551, F9451.	292	M123.....	224		
400753 Series.....	273C	U6, A9782-3.....	245C	CV8, GBK6, GBT6,			
601038 Series.....	294	L7, X6, Z4, Z5, BA41	285XS	8BK6 8BT6.....	W245A		
985100, 985200.....	273D	A9811-12, H9817.....		AC3789.....			
985300, 985301.....		55 (A10724), 66, 77,		8M, 8M1, 8M2, 9M1,	850		
985252, 985253.....		88, 710 (A10798),		9M2, 67M.....	743		
985254, 985255.....		810 (A10799).....	850	AVR10, AVR15 (6V),			
985283-4, 985285-6,	852	KJ9 (A10760).....	264	M1-7815, EC45A.....			
985424, 985426.....		AUI0 (A10822).....		SEARS-ROEBUCK			
CROSLEY		L'TATRO		7128 (4 PRONG).....	294		
98, 99, 102, 103, 5A1.	223	6A, J665, I465.....	271	7117, 1859A, 1859.....	271		
4A1, 5A3, A153, 6B.	247	H465, K665.....		7128 (6 PRONG).....	296		
A166, A25, A355.....	273C	R, S, Q 5636; O. P.	285XS	4400, 4400A.....	249		
A366, A455, A555.....	853	4626; M 4616 (O. P.	744	SIMPLEX			
A266, A167, A177.....	246	Ser.).....		T (Early).....	292		
6615, 435, 546, 636.....		AQ, BQ69, SP-TP67.....	220B	T (Late), GB, PB.....	245C		
A158, A168, A169,		MAJESTIC		TA.....	248		
A258, A259, A267,	850	66, 116, 116A, 118.....		SPARTON			
A268, 587, 667, A156		MOTOROLA		33, 33A, 33B, 333....	292		
DELCO		8-30, 8-40, 8-50, 8-60,		36.....	222		
2035, 4036.....	221	9-29, 9-44, 9-49.....		STEWART-WARNER			
4037, 4038.....	222	15F, 16-C, 17-D.....		R112, 1121, 1122,	292		
626, 627, 628, 629,	273C	25F, 26-C6, 26-C7,		1123.....			
634, 635.....		27-D, 28-O, 29-B6,					

*Add 29c net for special cup adapter. B4690.

BARGAINS

POPULAR HIGH QUALITY PARTS
BUY NOW! QUANTITIES LIMITED!

CARBON RESISTORS



3¢
Each

Brand new Standard RMA Color-Coded Carbon Resistors. Values held to close tolerance. Improved construction insures long life. 1½" tinned copper leads. Permanent lead connection is insured by welding. Order a supply now. Shpg. wt., 3 oz.

Ohms	Ohms	Ohms	Ohms
100	800	12500	150000
150	1000	15000	200000
200	1500	20000	250000
250	2000	25000	400000
300	2500	30000	500000
350	3000	40000	750000
400	4000	50000	1 Meg.
500	5000	60000	2 Meg.
600	6000	75000	3 Meg.
700	10000	100000	5 Meg.

B4720. ½ watt size.

B4721. 1 watt size.

EITHER TYPE. NET EACH.....3¢

Quantity Price—100 FOR.....\$2.25

SPECIFY VALUES DESIRED



RESISTOR ASSORTMENT

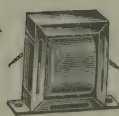
100 FOR 95¢ Valuable assortment of economy-type carbon resistors. All are brand new and coded with standard RMA color code. Most popular resistance values in ¼ and ½ watt sizes. Wt., 2½ lbs.

B5120. 100 Resistors. **NET.....95¢**

B5121. Assortment of 50 Resistors. Smaller assortment of same quality resistors as those listed above. An ideal assortment for the home-builder and experimenter. Wt., 1½ lbs.

NET.....50¢

PHILCO 50 MIL CHOKE



24¢
EACH

Replaces Philco No. 5643J filter choke. Strap mounting with 2½" ctrs. Semi-shielded. Inductance 30 hys. DC resistance 150 ohms. 50 ma. rating. Brand new units. Wt., 2 lbs.

B4800. **NET.....24¢**

SHIELDED 75 MIL CHOKE

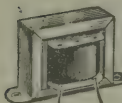


39¢
EACH

Brand new Jefferson shielded filter chokes at a bargain price. Inductance, 15 hys. DC Resistance, 150 ohms. 75 ma. rating. Case has 2½" mtg. ctrs. Lugs on bottom. Wt., 3 lbs.

B4801. **NET.....39¢**

MIDGET UNIVERSAL O.P. TRANSFORMER



49¢
EACH

Matches impedance of all single or push-pull output stages. Tapped secondary

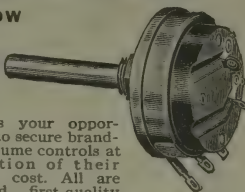
matches all voice coils from 2 to 30 ohms impedance. Size: 1½" high, 2½" long, 1½" thick. With instructions. Wt., 1 lb.

B11662. **EACH.....49¢**

MANUFACTURERS' CLOSEOUTS! BRAND-NEW VOLUME CONTROLS

AS LOW AS

18¢
EACH



Here is your opportunity to secure brand-new volume controls at a fraction of their original cost. All are standard, first-quality units secured from leading manufacturers' stocks. In compact 1¼" cases. Sturdily constructed. Ideal as replacements or as original equipment. Smooth contact action assures quiet operation. Available in popular sizes with or without switch. Please specify the resistances desired when ordering.

Ohms	With Switch	Less Switch
10,000	B5915	B5916
20,000	EACH	EACH
50,000	23¢	18¢
100,000	5 FOR	5 FOR
250,000	\$1.03	81¢
500,000		

VOLUME CONTROL ASSORTMENTS

5 FOR 75¢

These assortments contain new, standard type volume controls in popular resistances. Several types with switches are included. Ideal for the serviceman and experimenter. All assortments contain random but popular values. (Not available in selected values.) Pays for itself on first job.

ASSORTMENT OF 5 CONTROLS

B5917. **PER KIT.....75¢**

ASSORTMENT OF 10 CONTROLS

B5918. **PER KIT.....\$1.25**

PER KIT.....\$1.25

JUMBO ASSORTMENT

25 Volume Controls. High quality units in popular values for any replacement purpose.

B5919. **PER KIT.....\$2.95**



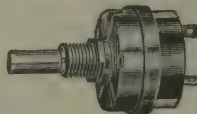
MIDGET 2½ M.H. R.F. CHOKE

Universal type winding, sectioned to reduce distributed capacity. DC resistance, 60 ohms; will carry 125 MA. Has ceramic core. Wt., 3 oz.

B2163. 10 for 98¢. **NET EACH.....11¢**

C-H ROTARY SNAP SWITCH

8¢
EACH



Here's a real bargain! Genuine brand-new Cutler-Hammer rotary snap switches, fully encased. Single ¾" hole mounting. ¼" shaft. 1¼" long. 1¼" diam., ¼" deep. Handles 3A. at 125V. Wt., 4 oz.

B4802. **NET.....8¢**

ALL-RUBBER CORD SET

8¢

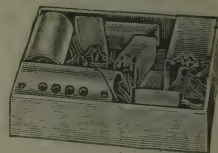
Underwriters' Approved. For radios, lamps, appliances, etc. 6 foot cord with rubber plug. Wt., 1 lb.

B3490. **NET.....8¢**

POPULAR COIL KIT

KIT OF 6

49¢



Here's a sensational bargain in popular coils you can't afford to overlook!

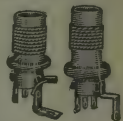
Servicemen, buy several kits for replacement and repair work. Experimenters, you'll find dozens of uses for them. Kits contain an assortment of six coils of various types, suitable for replacing defective coils or for original installation; Antenna and TRF coils, superhet coils, oscillator coils, etc. Most coils shielded; some round cans and some square. Quantity limited, 3 lbs.

B4803. **Kit of 6. NET.....49¢**

MIDGET TRF COIL KIT

KIT OF 2

17¢



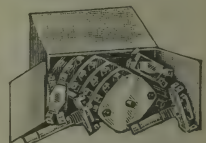
A "once-in-a-lifetime" bargain! Midget TRF coils, 1—antenna, 1—RF. Mfrs. style with lugs and brackets. High gain. Fully impregnated. Quantities limited, so stock up! With diagram. Wt., 8 oz.

B4804. **PER SET. NET.....17¢**

GANG SWITCH KIT

KIT OF 5

35¢



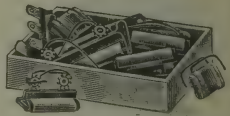
A special value kit of five assorted gang switches. All have ¼" shaft. Handy for Servicemen, Amateurs, and Experimenters. Brand new stock. Less knobs.

B4728. **Kit of 5. NET.....35¢**

10 CANDOHM UNITS

10 FOR

21¢



Shielded, wire-wound resistors with mounting flanges. Each kit contains 10 popular sizes—all standard equipment in many present-day radio receivers. An outstanding value. Wt., 1 lb. 10 units in assortment.

B4725. **NET.....21¢**

PILOT LITE SOCKET KITS

10 FOR

15¢



A popular assortment of miniature base and bayonet shell pilot light sockets for all radio requirements. Have heavy-plated lugs for easy soldering. Spring contact in socket holds lamp firmly in place.

B4726. **B4727.**

Asst. of 10....15¢ Asst. of 25....35¢

X-MITTING CONDENSER

A transmitting condenser bargain you can't afford to miss. These condensers are oil-impregnated in hermetically-sealed metal cases. Capacity, 3 mfd. Conservatively rated at 600 volts DC. Large lug type terminals.

Drilled bottom flange, 2¼" by 1", allows mounting in upright position. Overall size: 4¼"x2"x1¼". 2 lbs.

B14478. **NET.....59¢**



BARGAINS

POPULAR HIGH QUALITY PARTS
BUY NOW! QUANTITIES LIMITED!

BARGAIN STANDARD DRY ELECTROLYTICS



AS LOW
AS

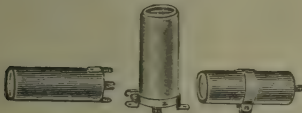
14c

A record value in dry electrolytic filter condensers. Housed in cardboard container with mounting tabs and flexible wire leads. Ideal replacements.

B3870. Single 8 Mfd. condenser with handy tabs for easy mounting. Cardboard container, 2 1/4" by 1 1/4" by 3/4". With long flexible leads. Working voltage—450 V. D.C. Wt. 1 lb. 10 for \$1.22. EACH

B3871. Dual 8-8 Mfd. 450 working voltage dry electrolytic. Same construction as above. Measures 2 1/4" by 1 1/4" by 1 1/4". Separate sections. Shpg. wt. 1 1/2 lbs. 10 for \$2.90. EACH

B3872. AC-DC TYPE. Filter and by-pass block. Contains 1—16 and 1—12 mfd. section at 200 volts; 2—10 mfd. sections at 35 volts. 3"x1 1/4"x1 1/4". Coded leads. Wt. 1 lb. 10 for \$3.10. EACH



UNIVERSAL TUBULAR DRY ELECTROLYTICS

Capacities listed are most commonly used in 90% of all AC-DC midsets. With two mounting brackets, one for horizontal and one for vertical mounting, 200 volts peak, 150 volts wkg. 6 oz.

AS LOW
AS

23c

No.	Mfd.	Size	EACH	6 FOR
B3885	20-20	1 x 2 3/4"	23c	\$1.24
B3886	30-20	1 x 2 3/4"	26c	1.40
B3887	40-30	1 x 3 1/2"	30c	1.62



4 FOR
39c

CHASSIS BASE ASSORTMENT

Here's a bargain scoop for the radio experimenter! A special assortment of four chassis bases at less than the usual price of one! Substantially constructed of good quality metal with holes punched for tubes, coils, transformers, tuning and volume controls, etc. May be used for building all kinds of sets from small 3 or 4 tube jobs to big 7 or 8 tube receivers. Will save hours of labor. Shpg. wt., 6 lbs. **B15199.** Asst. of 4. NET.....39c



ONLY
22c

SERVICE TEST LEADS

Kinkless leads with solderless phone tips fitted into 3/8" dia. prods. 3 1/2" long. 44" leads. 10 oz.

B5493. Phone Tips. **B5494.** Spade Tips. PER PAIR....22c



TUBE BASE COIL FORMS

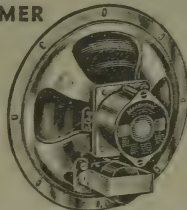
Just the thing for winding short wave plug-in coils. Black bakelite bases can be easily drilled. 5-prong type suitable for primary and tapped secondary; 6 prong can accommodate three separate coils. Shell, 1 1/4" dia., 1 1/4" high. Wt. 4 oz. each.

B4922. 5 Prong. **B4923.** 6 Prong. EACH.....2c

8" PM DYNAMIC SPEAKERS—BRAND NEW

WITH OUTPUT
TRANSFORMER

ONLY
\$1.59

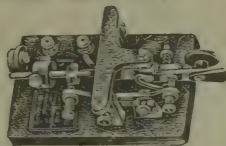


A bargain you can't afford to miss. An 8" Permanent Magnet Dynamic Speaker built by one of the outstanding speaker manufacturers to rigid, high quality specifications. Has a high permeability, heavy-duty, magnet designed for a lifetime of satisfactory service. Speaker is entirely dustproof and operates satisfactorily even under extreme temperature and humidity conditions. All metal parts are specially treated to make them rustproof. Speaker has approved frequency response and is free from objectionable rattles, resonant periods, etc. Accurately centered voice coil allows minimum gap clearance with resultant increase in efficiency. Output transformer for single output tube to match 7,000 ohm plate impedance, mounted directly on speaker frame. Take advantage of this remarkable opportunity to stock a number of these speakers. Wt. 3 lbs. **B15949.** EACH.....\$1.59

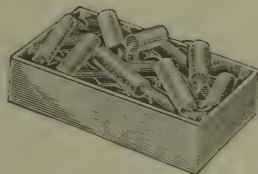
In lots of 6, EACH.....\$1.32

DELUXE MAC KEY

WAS
\$9.50
While
They
Last
\$5.95



Get one of the finest speedkeys ever made at a price that is ridiculously low. Huge cast base finished in mottled black marble enamel. Metal parts chrome plated. Dot stabilizer; 3/8" silver contacts; circuit closer. 10 lbs. **B7973.** NET.....\$5.95



25 TUBULAR BY-BASS CONDENSERS

ONLY
55c

A popular assortment of 25 brand new tubular paper condensers of the most frequently used values and standard voltages. Actually worth 4 times this bargain price. Wt., 2 lbs. **B3889.** Per Kit. NET.....55c

KIT OF 10 RADIO KNOBS

10 FOR
15c

Bakelite and wood knobs. For 1/4" shafts. Includes knobs for midsets. Wt. 8 oz.

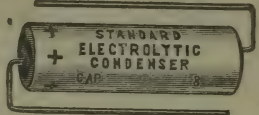
B4715. Kit of 10. NET.....15c

B4716. Assortment of 25. Includes white knobs for newest plastic-case midsets. For 1/4" shafts. Wt. 1 lb. NET.....31c



BARGAIN MIDGET DRY ELECTROLYTICS

As Low
As
12c
EACH



First quality midget dry electrolytic condensers. Hermetically sealed. Excellent for replacement purposes or as original equipment. Compactly built. Shpg. wt., 4 oz.

No.	Mfd.	Wkg. V.	Size	EACH
B3890	4	450	1 1/2 x 3/4"	14c
B3891	8	450	1 1/2 x 3/4"	15c
B3892	16	450	2 1/4 x 1 1/4"	29c
B4968	8	350	1 1/2 x 3/4"	12c
B3893	8	150	1 1/2 x 3/4"	14c
B3894	16	150	1 1/2 x 3/4"	19c
B3895	20	150	1 1/2 x 3/4"	21c
B3896	10	35	1 1/2 x 3/4"	14c
B3897	25	35	1 1/2 x 3/4"	16c

AS
LOW
AS

16c



WET ELECTROLYTICS

Inverted Type. Special value wet electrolytic condensers in most popular capacities. Self-healing; low leakage. Round aluminum containers. Can negative. With mounting bracket. Shpg. wt., 1 lb.

B11475. 8 Mfd. 450 V. Size, 1 1/8" x 3 3/8". 10 for \$1.45. EACH.....16c

B11476. 16 Mfd. 450 V. 1" x 4 1/2". 10 for \$1.50. EACH.....17c

B11477. 30 Mfd. 350 V. 1 1/8" x 4 1/2". 10 for \$1.60. EACH.....18c

ONLY
5c
EACH



BARGAIN SOCKETS

Fine quality tube sockets at amazingly low prices. 1 1/2" mounting centers. RMA numbered pin holes. Bakelite construction. Metal plate. A real bargain for Servicemen or for the Radio Builder. 6 oz.

No.	Prongs	EACH	10 FOR
B4450	4	5c	45c
B4451	5		
B4452	6		
B4453	7S		
B4454	8 Octal		

ONLY

25c
PER KIT



HANDY SOCKET KIT

A special offer. Kit contains 20 assorted tube sockets, including 4, 5, 6, 7M, 7S, and 8 prong. All have standard 1 1/2" mounting centers. Laminated bakelite construction; full-floating, self-aligning contacts. Wt. 1 lb. **B4034.** Your NET PRICE.....25c

OCTAL SOCKETS

EACH
ONLY 2c



Genuine laminated bakelite sockets for the popular 8-prong octal base glass and metal tubes. 1 1/2" mounting centers. **B4924.** 10 for 15c. EACH.....2c

SPECIAL FEATURE VALUES

SINGLE HEADPHONE CLOSEOUT

49c



A truly exceptional bargain in a comfortable, dependable, single phone headset. Single spring steel headband. Strong sensitive magnet; double coil construction. May be used for group code practice instruction. Clear reproduction. Lightweight; bakelite cap, 1000 ohms. With cord. Wt., 2 lbs. **B2812. NET..... 49c**



MARVEL ELECTRIC SOLDERING IRON

A high quality soldering iron. Ideal for general radio and light soldering work. Construction permits use on compact chassis. Quick heating. Has a Nichrome wire element mounted in a twin sleeve porcelain tube. Equipped with a good quality 2-inch copper tip. With brown-finished, stay-cool handle and 3-foot Underwriters' approved flexible cord. Only 10 inches long. For 110 volt AC or DC operation. Easy to use; retains heat efficiently. Shpg. wt., 2 lbs. **B6008. EACH..... 27c**
10 FOR..... \$2.55

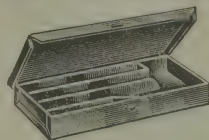
POWER ANTENNA



95c

This AC-DC Power Antenna can be used with any radio receiver. Eliminates necessity for outside aerial and indoor ground connections. Improves reception. Has socket for receiver plug. Complete as illustrated with cord and plug. **B7055. NET..... 95c**

METAL PARTS BOXES



Handy steel boxes with hinged covers that make possible a variety of uses. Made of heavy gauge steel. All the seams and partitions are welded. Cover has piano hinge along the entire length and closes with a tight fitting snap-catch. Interiors have several steel partitions for small tools and parts, compartments of various shapes. Available in four sizes. Finished in black enamel. Shpg. wt., 1 1/2 lbs. Buy several. **AS LOW AS 10c**
B10980. 6 1/2" x 2" x 1" EACH..... 10c
B10981. 8 1/4" x 1 3/4" x 1" EACH..... 10c
B10982. 13 1/4" x 2 1/2" x 1 1/2" EACH..... 12c
B10983. 16 3/8" x 2 3/8" x 1 1/2" EACH..... 12c

BARGAIN WIRE CLOSEOUTS!

Here's a real bargain scoop! Finest quality wire at sensational prices. Quantities are limited—buy your supply now.



RUBBER-COVERED LEAD-IN WIRE

Finest quality general purpose lead-in wire. No. 18 gauge stranded conductor covered with special rubber insulation for easy stripping. Extensively sold to radio dealers and electricians at substantially higher prices. Two leads can be twisted together for double antenna.

100 FT. COIL 250 FT. COIL
B4737. 22c B4740. 49c
NET.....



PUSH-BACK HOOK-UP WIRE

Finest quality hook-up No. 18 wire for set builders, experimenters and radio servicemen. Tinned center conductors solder easily. Push-back insulation eliminates stripping wire ends.

100 FT. COIL 250 FT. COIL
B2405. B2407.
Stranded. Stranded.
B2406. B2408.
Solid. Solid.
EACH. 34c EACH. 79c



10c

3 WIRE MIKE CABLE

High grade three wire cable suitable for double button carbon microphones. Color coded wires have overall covering of brown cotton braid. Phone tips on one end, crimp, solder tip on other. 8 ft. long. For use wherever a flexible 3 conductor cable is required. **B4745. NET..... 10c**

PER COIL ONLY 7c



RUBBER-COVERED HOOKUP WIRE

High quality number 20 tinned solid rubber-covered wire in 25 foot lengths. Put up in "hanks". Buy in quantity lots for increased profits. **B3400. NET EACH... 7c**
10 FOR ONLY..... 60c

HIGH-VOLTAGE POWER TRANSFORMER

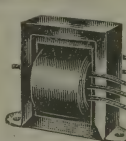
\$285



Every Amateur or Experimenter will find dozens of uses for this high-quality combination plate and filament transformer offered at a special low price. Primary, 110 V. 50-60 cycles. Secondaries: 1200 V. at 200 MA.—CT; 7.5 V. at 3 A.—CT; 5 V. at 3 A.—CT; 2.5 V. at 10 A.—CT. Mfg. ctrs. 3x3 3/4". Shpg. wt., 12 lbs. **B11100. NET... \$2.85**

HI-FIDELITY OUTPUT TRANSFORMER

39c



An outstanding value in a high quality output transformer. Suitable for use with tubes having high plate current. For 2A3's in push-pull, single 6L6, etc. Primary, 5000 ohms CT; secondary, 8 ohms tapped at 4 ohms. Flexible wire leads. Open frame. 2 1/4" mounting centers. Size: 3 1/4" x 2 1/2" x 2 1/2" high. Wt., 3 1/2 lbs. **B6666. NET..... 39c**

TECHNIFAX GEOPHYSICAL PROSPECTING PRINTS

With any one of the modern geophysical methods described, instruments can be constructed to locate metal and ore veins, subterranean water and oil deposits, buried pipes, tools, or other metallic objects sunken in water, etc. Folder contains blueprints and detailed data covering each instrument.

B1680. Folder No. 1. Construction and use of 2 tube transmitter and 3 tube receiver. Reflected wave principle.
B1681. Folder No. 2. Harmonic Frequency Locator. Radiates low frequency wave to receiver.
B1682. Folder No. 3. Beat Note Indicator. 2 oscillators. Visual and aural signals.
B1683. Folder No. 4. Radio Balance Surveyor. Balanced loop principle. Modulated transmitter.

50c

EACH

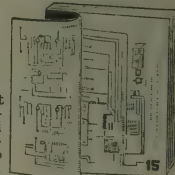
7 FOR \$3.00



B1684. Folder No. 5. Variable Inductance Monitor. Inductance principle. Aural signals.
B1685. Folder No. 6. Hughes Inductance Balance Explorer. Bridge principle. Aural.
B1686. Folder No. 7. Radiodyne Prospector. Balanced loop principle. **EACH, POSTPAID... 50c**
7 FOR..... \$3.00

SERVICE MANUAL OF POPULAR DIAGRAMS

ONLY \$195



427 most often needed diagrams to help you service radio sets faster and better. Helpful information on every popular radio. Gives test data, methods, and IF peaks. Alignment diagrams, parts lists, alignment methods, and IF peaks. Large size, 8 1/2" x 11". 240 pages with index. Postpaid in U.S.A. **B1756. \$1.95**
NET.....

1940'S MOST POPULAR RADIO DIAGRAMS

ONLY \$150 The important 1940 radio diagrams you need to repair most modern sets. A new manual to give you service data on 1940 models; service data on millions of radios sold last year. Includes circuit of new portables, television, FM, signal tracing, PA, recorders, etc. 212 pages, size, 8 1/2" x 11". Postpaid in U.S.A. **\$1.50**
B1797. NET.....

MOTOROLA AUTO RADIO MANUAL

ONLY \$100 Schematics, service notes, alignment data, and parts list for every one of the 72 Motorola Auto radios made to date. Service hints for auto set repairs of all types. 100 pages, 8 1/2" x 11". Wt., 1 lb. **B1798. \$1.00**
NET, Postpaid....



MALLORY-YAXLEY ENCYCLOPEDIA

39c The famous complete Second Edition of the Mallory-Yaxley Encyclopedia. Offered at a special bargain price. Has over 336 pages of valuable service data. Attractively bound hard cover. 8 1/2" x 11". Formerly priced at \$1.91. Complete data on replacement vibrators, volume controls, condensers, switches, etc. Shpg. wt., 2 lbs. **B11865. NET..... 39c**

DUPLEX FILTERVOLT ONLY

49c

Radio noises disappear. Eliminates noises reaching radio through power line caused by electric shavers, refrigerators, fans, motors, etc. Equipped with dual outlet, both sides of line filtered for noise elimination. **B5517. NET..... 49c**



SPECIAL FEATURE VALUES



ONLY
\$1.76

QUAM MIKE

A high impedance, high quality microphone of the dynamic type. Ideal for use with wireless record players, radio sets, paging systems, amateur phone transmitters, etc. Frequency range, 60 to 8,000 cycles; output, -50 db. With 5-foot cord and instructions. 5½" high. Shpg. wt., 2½ lbs. **B9172. NET.... \$1.76**
B9173. With 20-foot cord. Wt. 3 lbs. NET.....\$2.03



POPULAR SLIDE RULES

B4195. DeLuxe Model
Mannheim type rule with A, B, C, D, C-1, and K scales. A well-constructed, 10½-inch instrument. Has sine, log, and tangent scales. Made of hardwood. Made in U.S.A. Leatherette case. Wt., 1 lb. **NET.....79¢**

B4194. Vest Pocket Type.
As above but only 6" long. Has A, B, C, D, C-1 and K scales with sine, log and tangent scales on back of slide. Inch and MM scale. Leatherette pocket case. With instructions. Made in U.S.A. Wt., 6 oz. **NET PRICE.....59¢**

B4193. Simple Slide Rule.
An unusually low-priced, slide rule for the school or college student, etc. Has A, B, C, D, C-1, and K scales. 10½" long. With 6 page instruction folder. Wt., 8 oz. **NET.....27¢**



CODE PRACTICE SET

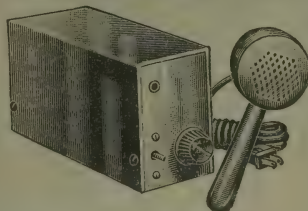
This is the ideal set for code practice. Permits sending and receiving between two stations. Makes it easy to learn radio and telegraph code and blinker or navy signalling. Has high frequency buzzer, blinker light, key, and telegraph sounder. Has switch for changing from one type of signal to another. Easy-to-read code instruction card is conveniently mounted on signal box. Double unit consists of two complete instruments and is supplied with 50 feet of wire for two-way communication. Two standard flashlight batteries used with each set. With full instructions, less batteries. Shpg. wt., 2½ lbs.

B5571. Double Unit. NET. \$1.85

B5572. Single Unit. Less wire and batteries.....85¢

B8927. Flashlight cell. (2 required.) EACH.....3½¢

RCA "MYSTERY" OSCILLATOR AND MICROPHONE



While They
Last,
ONLY **\$2.95**

This RCA "Mystery" unit allows you to play any record player through a radio set without any wiring to the set itself. You merely connect the output leads of the record player to the "Mystery" oscillator, plug the power cord on the oscillator into any 105-125 volt AC or DC outlet, then "tune in" on the radio set. The "Mystery" oscillator can be quickly set to any desired spot on your receiver dial between 900 KC and 1200 KC where no broadcast station can be heard. Reproduction of either voice or music through the "oscillator" will be heard with all the tonal quality and volume of your favorite radio programs. There's real fun for all the family, too, with the high quality hand microphone supplied with the "Mystery oscillator." For 105-125 volt AC or DC. Complete with tube, microphone, and instructions. Size 7" x 3¼" x 3¼". Shpg. wt., 3 lbs. Former RCA List Price, \$7.95. **B9499. NET.....\$2.95**

POPULAR LOW-COST MICROPHONES

54¢



STANDARD MODEL

Similar in appearance to the De Luxe model listed at right but slightly smaller in size. In bronze metal case 3¾" high. Will provide loads of fun and entertainment at parties, etc. Supplied complete with adapters and cord. Same general construction as described for B7087 below, but mounted on pedestal. Flt base. Shipping weight, 1 lb.

B7086. NET.....54¢



85¢

DE LUXE MODEL

An efficient microphone for home radio use. Make your own broadcasts and announcements. Does not interfere with radio reception. Equipped with push-button switch for instant break-in on programs. Finished in attractive green-bronze finish. Size: 5" high. Mounted on substantial no-tip pedestal. Complete with cord. Wt., 1 lb.

B7085. NET.....85¢



98¢

HAND MICROPHONE

Similar to the Standard Model above but fitted with wooden handle. A low-priced but well-made novelty microphone. Will provide endless hours of real enjoyment. Switch in handle allows you to break in on regular radio programs with your own announcements and surprise your friends. Complete with cord. Wt., 2 lbs.

B7087. NET.....98¢



\$1.18

STUDIO TYPE MIKE

An extremely popular type hand carbon microphone for use with any radio set or amplifier. Looks like a professional crystal type microphone. Includes on-off switch mounted on handle. Furnished with 10-foot cord and connector prong adapter for easy installation. Complete instructions are furnished. Handle fits comfortably in hand. Shipping weight, 2 lbs.

B7100. NET....\$1.18

ICA MIKE "BOOSTER"

Here is a high grade coupling unit to permit connecting a single button carbon mike to any radio receiver. Increases sensitivity and output of any carbon microphone. Limits button current to a safe value; eliminates carbon "packing." Easy to install. Complete with detailed instructions. Wt., 1 lb. **B5731. NET.....59¢**



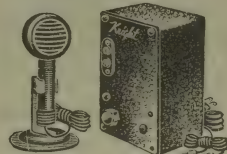
ONLY
59¢



ONLY
\$2.32

ICA DYNAMIC MIKE

A high quality microphone incorporating the new high impedance permo-magnetic type of internal construction. Has excellent sensitivity and is ruggedly built for long and dependable service. Frequency response is from 60 to 8000 CPS; output level, -50 db. High impedance output; 5 foot cord. Wt., 3 lbs. **B5732. NET.....\$2.32**



Knight PRE-AMP AND MICROPHONE

With this cleverly designed pre-amplifier and Shure crystal microphone, any radio set can be used as a PA system. Pre-amp housed in metal case finished in brown crackle; size, 4½" x 3½" x 7". Microphone is high impedance crystal type with excellent frequency response, equipped with convertible stand for either hand or desk use. Pre-amplifier uses two tubes, 1-6J7GT and 1-25Z5; operates from any 110 volt AC or DC supply; couples to the radio-phonograph input. With tubes, Wt. 6 lbs. **B10058. NET...\$7.85**



POWER LINE FILTER

End bothersome radio interference! No ground connection required; plugs into standard receptacle. Has socket for receiver plug. Ideal for elimination of noises from home appliances such as electric razors, vacuum cleaners, hair dryers, etc. For 110 volts AC or DC. Wt., 1 lb. **B5406. NET.....59¢**
PER LOTS OF 6.....\$3.35



3-IN-1 RADIO TUNER

Will improve the reception of any radio set. Performs any one of three functions: as an Antenna Tuner; as a Wave Trap; as an Aerial Eliminator. Makes outdoor aerial unnecessary. Easy to install. With instructions. Shpg. wt., 1½ lbs. **B5563. NET.....29¢**

SPECIAL FEATURE VALUES

LOW COST PORTABLE P.A. SYSTEM



ONLY
\$19.95

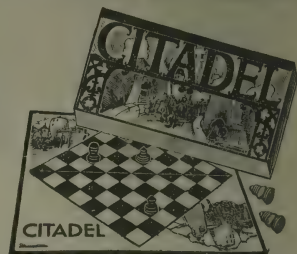
Here's just the complete low-cost portable amplifying system you've been looking for! Ideal for use in public speaking classes, store demonstrations, clubs, schools, restaurants, parking lots, and a host of other places. It's complete in a modern airplane-luggage type case and as compact and easy to carry as a portable radio set. The amplifier produces a full 2.5 watts output and uses an ingenious and modern circuit with 1-6SC7, 1-6K6GT and 1-80 tubes. Sturdy 5" PM speaker.

AS EASY TO USE AS YOUR RADIO

Anyone can set it up and operate it without fuss or bother. Simply plug into 110 volt 60 cycle AC socket, attach the Shure crystal microphone supplied, or a record player, and it's ready for use. Adjust tone and volume by means of amplifier controls. Complete with tubes, microphone with 12' cable, and desk stand. Weighs only 7 lbs. Size of case, 10½" x 10½" x 4¾". Shpg. wt., 15 lbs. **B12322. NET \$19.95**

"CITADEL"—FASCINATING NEW GAME

Here's fun for all the family, young or old. "Citadel" is a game of skill to be played by two persons. Fast, exciting and educational. It's so simple that anyone can play without previous instruction — there are only a few simple rules. Played on a checkered board, it's faster than chess and as simple as checkers. "Citadel" consists of two sets of opposing pieces, and a special checkered playing board. The object of the game is to capture the opposing player's Citadel. The whole family will enjoy matching wits across the "Citadel" board. Offers plenty of opportunity for skill by advanced players, but it's exciting and fascinating play for everyone.



RADIO AMATEURS—PLAY IT OVER THE AIR!

"Citadel" is an interesting game for radio amateurs, too. The checkered board is numbered for radio play making it unnecessary to memorize positions. It's swell for filling in those evening hours and "Citadel" contacts. Don't delay, get your "Citadel" set now. It's complete with simple, easy-to-learn instructions, two sets of playing pieces, and checkered playing board. "Citadel" is a genuine "Parker" game. Shpg. wt., 5 lbs. **B10449. NET \$1.79**

VACULATOR COFFEE BREWERS



AS LOW AS
\$2.15

Genuine Vaculator coffee brewers. Approved by Good House-keeping Institute. Improved, efficient filtering system produces crystal clear coffee of superior flavor. Patented 3-in-1 cover serves as dust cover, scorchproof table mat, and funnel stand. Has heat resistant rubber bushing. Bowls of crystal-clear, heat-resisting Corning glass. Plastic handle.

ELECTRIC MODEL

Maximum capacity of 8-9 cups. Complete with famous Vaculator two-heat electric heating unit. For 115 V. AC or DC. Shpg. wt., 5 lbs. **B10445. NET \$3.75**

GAS MODEL

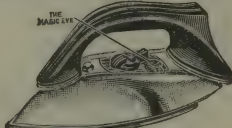
Max. capacity, 8-9 cups. For use on gas burner or open flame. Shpg. wt., 4 lbs. **B10446. NET \$2.15**

NEW SAMSON ELECTRICAL APPLIANCES



DIAL-A-HEAT IRON

An unbelievable value! Has every feature of higher priced automatic electric irons. 1000 watt heating unit within ¼" of ironing surface. Weighs only 4½ lbs. Adjustable to the correct heat for every fabric by means of heat-indicating dial. Bakelite heel rest. Chrome finished. Underwriters' approved. With 7 ft. cord. For 115 V. AC. Shpg. wt., 6 lbs. **B10436. NET \$3.55**



SAVE-U-CURRENT IRON

Designed to save you current and expense. "Magic-eye" indicates "on" or "off." Saves on everything—electricity, fabrics, time, and energy. Adjustable to correct heat for every fabric. Quick-heat 1000 watt unit. Air-cooled bakelite handle. Chrome finish. Weighs under 4½ lbs. Underwriters' listed. With 7 ft. cord. For 115 volts AC. Wt., 6 lbs. **B10437. NET \$6.35**



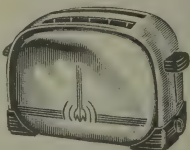
HEATING PADS

STANDARD. Underwriters' approved 3-heat pad. No radio interfering. Grey camel's hair fabric cover, with extra water-repellent snap-on cover of tan flannel. 8½ ft. cord. For 110 V. AC-DC. Wt., 2 lbs. **B10439. NET \$1.39**

DELUXE. Extra high quality 3-temperature fixed-heat "automatic" pad. Tan flannel cover. Extra snap-on cover of water-repellent green fabric, stain and perspiration resistant. Underwriters' approved. 8½ ft. cord. For 110 V. AC-DC. Shpg. wt., 2 lbs. **B10440. NET \$2.10**

WETPROOF. Has genuine waterproof snap-on cover of quilted finely tailored blue fleecette fabric. Resists stains and perspiration. Automatic 3-heat type with 4 safety controls. Underwriters' approved. 8½ ft. cord. For 110 V. AC-DC. Shpg. wt., 3 lbs. **B10441. NET \$2.90**

2 SLICE AUTOMATIC POP-UP TOASTER



\$6.98 An unusually fine, fully automatic toaster. You can set it for light, medium, or dark toast. Pops-up finished toast; built-in warmer keeps toast warm. Easy to clean—bottom tray catches crumbs. Finished in chrome. Underwriters' listed. Has 7-foot cord. For 110-120 volts AC. Shpg. wt., 7 lbs. A splendid toaster value. **B10438. NET \$6.98**



THE "AIRMETER"

59c
EA. LOTS OF 6

Tells at a glance the relative humidity and temperature in any room. Attractively presented in a chrome case with black dial face and contrasting aluminum figures and pointers. Size: 3¼" x 3". Wt., 1 lb.

BT060. EACH, 67c. LOTS OF 6, EACH \$59c.

LUCITE THROAT LIGHT



59c

A handy light for use in any hard-to-get-at place. Unbreakable case with curved Lucite light director. With G-E bulb and batteries. Shpg. wt., ½ lb.

B8948. EACH 59c, 6 FOR \$3.10



WALDORF LIQUID MIXER

\$10.95 The Waldorf two-speed liquid-mixer is the world's finest automatic mixing device for foods or beverage. It's more than just a mixer—it liquefies, grinds, chops, blends, beats, whips, churns, and mixes. Use it for mixing drinks, for liquefying or grinding raw vegetables and fruits into a smooth, emulsified mixture. Features: powerful two-speed motor which operates from 110-120 volt AC or DC; one piece 4-blade knife of stainless steel turning at high speed for liquefying vegetables or solids; tempered crystal-clear 34 ounce glass container; removable rubber cover; heavy die-cast chrome plated base. Modern design. Overall height is 18½", base diameter is 7½". Shpg. wt., 13 lbs. **B10444. NET \$10.95**

NO-BATTERY FLASHLIGHT

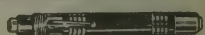
Genuine **\$1.43**

NIKO self-generating flashlight. Ideal for campers, sportsmen, tourists, Boy Scouts, or for home use. Tenite case with built-in generator; just pump lever and get continuous beam of uniform light. 4½" long, 2½" wide, 1" thick. Wt., 1 lb. **B8949. NET \$1.43**



BURGESS PENLIGHT

Handy pen-light fits either vest pocket or purse. Chrome-plated barrel trimmed with maroon enamel. Thumb-switch locks on and quickly releases. Has pocket clip. Complete with G-E bulb. Less battery. **B8945. Penlight only. NET \$35c. B8946. 2 cell battery for above. NET 6½c**



SPECIAL FEATURE VALUES



QUAM-NICHOLS PHONE SET

An all-purpose battery phone set which operates electrically to furnish efficient, low-cost inter-communication for houses, offices, factories, farms, camps, etc. Two dry cell batteries at each phone will carry voice and signal 750 feet; four dry cells at each phone will carry 2,000 feet and over. These are cradle-type phones made of durable pressed steel and finished in telephone black. Installation is extremely simple. Work like regular commercial phones; unbeatable for utility and economy. With 35 feet of connecting wire. Extension wire is listed below. Less dry cells. Shpg. wt., 4 lbs.

B2811. NET.....\$2.65
B2906. 100 Feet of Extension Wire. NET.....65c

\$1.49



REPAIR OUTFITS FOR REPLATING

For Replating Chromium, Nickel, Silver, etc. A handy, portable kit for quick, economical electroplating. Plating compound applied with a brush as easily as paint. Ideal for auto mechanics for replating reflectors, nicked or chrome fittings, etc. Kit consists of 1 oz. of compound, 1 oz. metal polish, anode brush, wire with clips, emery paper, brass strip for practice, 2 batteries, battery holder with insulated panel, and directions. Wt., 2 lbs.

B10430. For replating chromium, nickel, etc. \$1.49 NET.....
B10431. For replating all silver or silver-plated objects. NET.....\$1.84

PHONOLA PORTABLE PHONOGRAPH

Popular spring-wound portable phonograph. Ideal for picnics, clubs, play-rooms, dormitories, tourists, etc. Compact and completely self-contained. It is not necessary to connect to radio or amplifier for record reproduction; uses no batteries or electricity. Covered with water-proof blue leatherette with harmonizing blue lining. Has convenient carrying handle and snap catches for secure locking. New long-running American made spring-wound motor plays two or more records on one winding. Will play all 10" and 12" records. Motor has "Slow-Fast" control. Crank fits inside case.



PLAYS ANYWHERE—EASILY CARRIED

Extremely compact and light in weight. Case measures only 11" x 13 1/2" x 6 1/2" closed. Rounded corners give modern luggage appearance to unit. Record compartment inside lid holds ten records. Throw-back type tone arm and reflecting tone chamber produce the finest reproduction available from this type of machine. Tone chamber is concealed by attractive grille. Wt., 12 lbs.

B16455. NET.....\$7.85
B16456. Same general description as above except equipped with 110 volt AC motor. NET.....\$7.85



SAMSON COMBINATION TOASTER-GRILLE- WAFFLER

A marvelously convenient home appliance that can rightly be called a feature value! Here in one complete unit of striking modern design are three separate and popular household aids. Adjustable lid hinges permit toasting sandwiches without crushing; with the top laid back it becomes a double-surface flat grill for fast grilling or frying. Both flat grids have large drain with cup to catch grease. Converts to a waffle iron in a jiffy by merely inserting the greaseless type cast-aluminum waffle grids included. Finished overall in polished chromium with genuine walnut handles. Has fast-heating 660 watt element with heat indicator. Underwriters' approved. For 110-120 volts AC or DC. With approved cord set. Shpg. wt., 15 lbs.

B10442. NET.....\$5.20



SAMSON ELECTRIC MIXER AND JUICER

\$10.95 Powerful all-purpose kitchen servant which will mix, whip, stir or beat all types of batters, pastry dough, salad dressings, eggs, cream, etc.; and will extract juice from fruits. Equipped with set of 2 self-locking beaters with stainless steel blades, easily removable for cleaning. Base tray is revolving ball-bearing type. Powerful three-speed universal type motor operates on 110 volts AC or DC. Motor automatically locks self to frame; tilts back to drain beaters or for easy removal of mixing bowl. Complete with 1-7 1/2" and 1-9" bowl and juicer attachment. Ivory finish with ebony striping. Wt., 15 lbs.

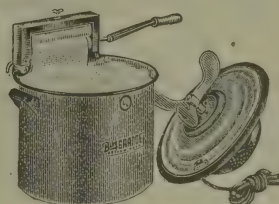
B10443. NET.....\$10.95



"HOT DONUT" WATER HEATER

Now you can have all the hot water you need in a jiffy whenever you need it. Just connect the Hot Donut Water Heater to any 110 volt outlet, either AC or DC, and immerse in a pan of water and you will have boiling water almost immediately. This dependable little heater is inexpensive and portable; it is extremely valuable to tourists and travelers. Ruggedly built. Heating unit is thoroughly impregnated against moisture. Metal housing is finished in bright aluminum; will not rust; easy to keep clean. Has heavy rubber cord 6 feet long, with plug. Priced exceptionally low; buy them in quantities for extra savings. Wt., 2 lbs.

B9161. YOUR PRICE, EACH.....\$7.1c
10 FOR.....\$6.65



STERRO ELECTRIC CLOTHES WASHER

A new Underwriters' Approved Electric Clothes Washer; ideal for the home or nursery. Boils and sterilizes as it washes everything from baby's clothes to wearing apparel and linen. Holds 2 full pounds of dry clothes; washes thoroughly with swirling action. Has powerful air-cooled induction-type motor and 3 fin cast-aluminum agitator. Heavy, triple-coated vitreous porcelain enameled steel tub and cover, attractively finished in speckled Ivory. Cover has convenient handles and steam escape vents. Diameter, 16". For 110 V. 50-60 cycles AC. Less wringer. Wt., 18 lbs.

B16098. NET.....\$9.75
B16099. Portable Wringer. Soft rubber rollers. Wt., 4 lbs. NET.....\$3.85

ANTENNA LOOP

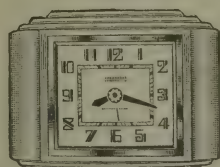


98c

"Air-magnet" type antenna to improve reception of any set. Provides higher signal-to-noise ratio and better selectivity. Eliminates the need for outside aerial or ground connections. Incorporates permeability tuning iron core assembly. With instructions. Size: 9 1/4" x 7 1/8" x 1 1/4" deep. Shpg. wt., 1 1/2 lbs.

B7233. NET.....98c

"LUCERNE" SET-O-MATIC ELECTRIC CLOCK



\$1.98

An attractively-designed kitchen clock in the modern style. Sets and starts from the front in one operation; operates from 100-125 volts, 60 cycles, AC. Large, easy-to-read black numerals on white dial, with red sweep-second hand. 180 RPM electric motor; positive lubrication assured through oil-absorbing bearings. Power consumption only 1 1/4 watts. 8 1/2" high, 6 1/2" wide, 2" deep. Shpg. wt., 3 lbs.

B10433. Refrigerator White. \$1.98
B10434. Green. EACH.....

TORK "TYMIT" ELECTRIC TIME CLOCK SWITCHES

The genuine famous Tork electric time clock switches. Underwriters' approved, portable, accurate. Will automatically turn electrical appliances "on" and "off" once daily at any predetermined time. Easy to set by means of dial knob. Synchronous motor driven. For 115-volt, 60-cycle AC. Type 6 for radios, defrosting, fans, small heaters, protective lighting, etc. Type 9 for larger capacities—cookers, heaters, etc. For stokers and oil burners use Type 191. Average wt., 3 lbs.



\$7.45
B7685. Type 6, 660 watts. NET.....\$7.45
B7686. Type 9, 1320 watts. NET.....\$8.35
B7687. Type 191, 1650 watts. NET.....\$9.75

We can supply Tork clocks for all requirements.

FLUORESCENT LIGHTS AND ACCESSORIES

LOW COST SCREW-IN FLUOR-O-DAPTER



An amazing new fluorescent lamp fixture that screws into any 110-120 volt 60 cycle AC socket. As easy to install as a light bulb. Scientifically designed to provide a flood of evenly diffused light. Inside of reflector finished in white enamel, outside in durable brown wrinkle. Patented swivel allows the fixture to be moved around for best light distribution. With loops for chain hanging. Ideal for service shops, work-benches, homes, offices, assembly lines, etc. Uses standard 18" 15 watt fluorescent lamp bulbs.

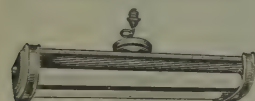
1 LAMP TYPE

B15270. Uses 1—T8 15-watt fluorescent bulb. Supplied less bulb. Shpg. wt., 5 lbs. **\$3.05**
EACH.....
Lots of 6, EACH.....**\$2.82**

2 LAMP TYPE

B15271. Uses 2—T8 15-watt fluorescent bulbs. Supplied less bulbs. Shpg. wt., 6 lbs. **\$5.00**
EACH.....
Lots of 6, EACH.....**\$4.62**

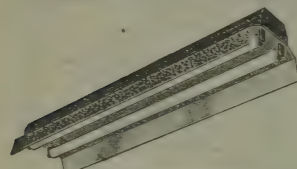
NEW! KITCHEN AND SHOP FIXTURE



Now you can have efficient fluorescent lighting, "indoor daylight," for shop or kitchen at moderate cost. Installation is easy—no tools required. Will fit any 4" or 6" ceiling fixture holder; can be installed in less than three minutes. Use pull switch for on-off control. Finished in white enamel with polished chromium trim. Easy to keep clean. Will provide an abundance of cool, high intensity daylight. Underwriters' approved. Uses two 20 watt bulbs; for 110-120 volts 60 cycles AC. With fittings. Less bulbs. **B15272.** Uses two T12 20-watt fluorescent bulbs. See bulbs listed at lower right. Shpg. wt., 11 lbs. **\$6.46**
EACH.....
In lots of 6, EACH.....**\$5.97**

B15273. Same as B15272 but power-factor-corrected. Eliminates stroboscopic effect. Shpg. wt., 13 lbs. **\$8.41**
EACH.....
In lots of 6, EACH.....**\$7.77**

FLUR-O-LUME INDUSTRIAL FIXTURES



New Flur-O-Lume fixtures provide high efficiency daylight illumination for factories, offices, stores, production lines, etc. Provide shadowless, glareless lighting. Power-factor-corrected to meet public-utilities requirements. Flur-O-Lume fixtures result in lower current consumption with higher visibility than incandescent lights. All units use standard fluorescent bulbs. For 110-120 volts 60 cycles AC. Fixtures made of 20 gauge steel finished in gray crackle enamel; reflectors coated with easily cleaned white baked plastic.

B15276. Uses 2—T12 20-watt bulbs. Less bulbs. Length, 24½". Wt., 7 lbs. **\$10.72**
NET.....
B15275. Uses 2—T12 40-watt bulbs. Less bulbs. Length, 48½". Wt., 16 lbs. **\$13.60**
NET.....

B15277. Uses 1—T12 20-watt bulb. Less bulb. Length, 24½". Wt., 5 lbs. **\$7.15**
NET.....
B15278. Uses 1—T12 40-watt bulb. Less bulb. Length, 48½". Wt., 10½ lbs. **\$10.72**
NET.....

GENERAL TRANSFORMER NOISELESS AUXILIARIES



All for 105-125 volts 60 cycle AC. All 2 lamp auxiliaries 95-100 power-factor. Single lamp type, 90+ power-factor. *Longfellow type. We can supply auxiliaries for all voltages, 199-219 and 220-250. Write for free bulletin. B15790.

2 LAMP LESS STARTING COMPENSATORS

No.	Type	Lamp Watts	Size	Mtg. Ctrs.	EACH
B15770	30B2	2-30	2½"x3¼"x9½"	2x9"	\$3.23
B15771	40B2	2-40	2½"x3¼"x9½"	2x9"	\$3.49

2 LAMP WITH STARTING COMPENSATORS

B15772	30BC2	2-30	2½"x3½"x9½"	2x9"	3.61
B15773	40BC2	2-40	2½"x3½"x9½"	2x9"	3.86
B15774*	15BCL2	2-15	1½"x2½"x14½"	13½"	2.76
B15775*	20BCL2	2-20	1½"x2½"x14½"	13½"	2.76
B15776*	30BCL2	2-30	1½"x2½"x14½"	19½"	4.78
B15777*	40BCL2	2-40	1½"x2½"x14½"	19½"	4.78

SINGLE LAMP BALLAST—HIGH POWER FACTOR TYPE

B15780*	15BLP	1-15	1½"x2½"x8½"	8½"	2.02
B15781*	20BLP	1-20	1½"x2½"x8½"	8½"	2.02
B15782*	30BLP	1-30	1½"x2½"x14½"	13½"	3.13
B15783*	40BLP	1-40	1½"x2½"x14½"	13½"	3.13

SINGLE LAMP BALLAST LESS POWER FACTOR CORRECTION

B15784*	15B	1-15	1½"x1½"x4½"	4½"	.48
B15785*	20B	1-20	1½"x1½"x4½"	4½"	.48
B15786*	30B	1-30	1½"x2½"x8½"	8½"	1.66
B15787*	40B	1-40	1½"x2½"x8½"	8½"	1.84

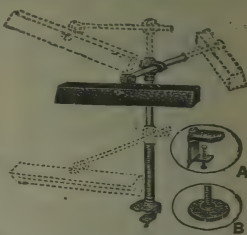
GENERAL TRANSFORMER REPLACEMENT AUXILIARIES

For 105-125 volts AC or DC. Instant lighting. Built-in magnetic starter. No thermal switch to stick or burn out. Function in any position and can be used in any type fixture. Assure longer tube life.

Cat. No.	Mfr. Type	Lamp Watts	Mtg. Ctrs.	Size	Wt. Lbs.	NET EACH
B15788	15M	15	6½"	1½"x1½"x6½"	1½"	\$1.20
B15789	20M	20	6½"	1½"x1½"x6½"	1½"	\$1.20

HANDY ADJUSTABLE LAMPS

Here is a handy all-purpose fluorescent lamp that brings daylight to your work. Provides a flood of evenly diffused light without shadows or glare. Can be quickly installed on tables, desks, benches, walls, ceilings, etc. Shade, upright and arm fully adjustable, permitting light to be concentrated exactly where it is wanted. Economical; uses less current than incandescent lamps. Highly efficient. Shade 18" long, finished in brown enamel with white coated reflector; upright adjusts from 14° to 26°; extends up to 16". With 9 ft. cord. Uses 1—T8 15-watt bulb. For 105-125 volts 60 cycles AC. Wt., 8 lbs.



BENCH TYPE

B15280. Flush-mounting flange type for permanent installations. Fig. B. Less bulb.

B15281. Clamp-on mounting type. Fig. A. Less Bulb.

NET EACH.....**\$5.81**

FLOOR STAND TYPE

Same adjustable lamp on telescoping floor stand. Stand adjustable from 43" to 63"; arm extends to 12". Ideal for home, office, garages, etc. Less bulb. 12 ft. cord. Wt., 22 lbs. **B15285. NET.....\$8.41**

HIGH POWER-FACTOR INDUSTRIAL TYPE

Designed to meet the demands of industry for high levels of illumination. These units are high power-factor corrected (95-99%) using the new "Tulump" ballast and replaceable cartridge type starters. Extremely efficient and provide cool, pleasing daylight illumination with improved visibility and elimination of eyestrain. Ideal for shops, production and assembly lines; furnish 60-70 foot-candles when suspended 3 feet above working surface. Rigidly constructed of heavy steel with fired porcelain white enamel reflector inside finish blue-black baked enamel. Use two standard 40 watt T12 fluorescent bulbs. Underwriters' Approved "Tulump" ballast reduces stroboscopic flicker to an absolute minimum. Certified by Electrical Testing Labs. for conformance with 50 rigid electrical and mechanical requirements; all operating equipment Underwriters' Approved and meets National Electrical Code requirements. Easy to install. Supplied complete with two 8 foot hanging chains and 6 foot heavy rubber cord with separate ground lead. Knock-outs permit use of BX or conduit if required. Less bulbs. Wt., 38 lbs.



B15282. For 110-120 V. 60 cycles. **\$12.96**
NET.....

B15283. For 220-250 V. 60 cycles. **\$12.96**
NET.....

LOW COST ALL-PURPOSE INDUSTRIAL TYPE

Here is a scientifically designed and carefully engineered fluorescent unit which is instantly and readily adaptable for hundreds of commercial and industrial uses. Amazingly economical to operate, it uses two standard 20 watt T-12 fluorescent bulbs. Can be used to provide cool efficient light of daylight quality in shops, garages, stores, offices, show-windows or cases, display rooms, assembly and production lines, over ping-pong tables, or wherever high level illumination is required. Easy to install—just hang it up with hanging chains supplied and plug 6-foot rubber cord into nearby 110-120 volt 60 cycle outlet. Chains adjustable to permit tilting for best lighting. Rigid construction. Finished in attractive bronze; heat treated aluminum finished reflector. Underwriters' approved ballasts; replaceable starter. Less bulb. Wt., 7 lbs.



B15290. Complete, less only bulb. **\$5.72**
EACH.....
In lots of 6, EACH.....**\$5.28**

B15291. Power-factor corrected (90%). Less bulbs. **\$7.76**
NET.....
In lots of 6, EACH.....**\$7.17**

FLUORESCENT LAMPS

Gas-filled glass tubes; provide non-glaring light from their entire surface. G. E. Licensed. In daylight and white color. Easy to replace. Has twin contact. 18" shpg. wt., 2 lbs.; 24", 3 lbs.; 48", 5 lbs.

B15260. Type T8-15 watt 18" Daylight. **79c**
B15261. Type T8-15 watt 18" White. NET EACH.....

B15262. Type T12-20 watt 24" Daylight. **\$1.03**
B15263. Type T12-20 watt 24" White. NET EACH.....

B15264. Type T12-40 watt 48" Daylight. **\$1.58**
B15265. Type T12-40 watt 48" White. NET EACH.....

STARTERS AND SOCKETS

Genuine "Arrow H&H" fluorescent fixture starter switch and socket assemblies. For use in construction of special fixtures or for repairing or modernizing original or defective fixtures. Easily installed or replaced; standard on most fluorescent fixtures now manufactured and on the market. Av. Shpg. wt., 8 oz.



STARTERS Fig. A				SOCKETS Fig. B	
No.	Type	Lamp Watts	EACH	No.	Color
B15792	FS2	15 or 20	45c	B15794	Black
B15793	FS4	30 or 40	45c	B15795	White

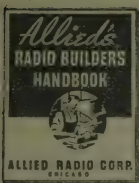
COMBINATION STARTER SOCKET AND LAMPHOLDER

No.	Type	Color	Rating	EACH
B15796	7019	Black	660 W. 250 V.	34c
B15797	7019A	White	660 W. 250 V.	36c



BOOKS for Every Service Need

ALLIED PUBLICATIONS BUILDERS' HANDBOOK



Sixth Edition. Thoroughly revised and enlarged—the ideal guide for every radio beginner and experimenter. Enables you to learn radio by actually building useful, inexpensive equipment. Tells how to read diagrams, punch chassis bases, wire parts, and operate receivers and transmitters. Also includes section on amateur radio. Basic theory and construction made easy to understand with diagrams, charts, tables, illustrations. Contains full details for building receivers, transmitter, amplifier, and photo cell relay.

B1753. Postpaid..... 10c

RECORDING BOOK



A new ALLIED recording manual for beginners as well as experienced recordists. Written in non-technical language. Tells how to select recorder, microphone, discs, needles, and recording accessories. Includes valuable hints for improving recording technique. Describes recording equipment best suited for home, school, studio, business firm, etc. Fully illustrated.

B1754. Postpaid..... 10c

RADIO "QUESTIONS AND ANSWERS" HANDBOOK

A complete question-and-answer discussion covering all phases of radio fundamentals, servicing data, and engineering information. Compiled by experts; up-to-date and authoritative. Revised edition has over 3000 answers to common servicing problems. 8 1/2"x11". 82 pages of indispensable information.

B7630. Postpaid..... 29c

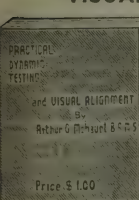
DRAKE'S CYCLOPEDIA



The standard reference book for radio men. The latest edition covers the whole field of Radio, Short Wave, Television, Sound Pictures, Public Address, and Electronics. Contains 1000 pages. Has many useful charts, graphs, and illustrations. Shpg. wt., 4 lbs.

B7081. \$3.92 NET.....

PRACTICAL DYNAMIC AND VISUAL ALIGNMENT



By Arthur G. Mohaupt
A guide to efficient, time-saving servicing methods. Explains how to secure best results in using the cathode-ray oscilloscope and frequency-modulated signal generator. Gives full, step-by-step discussion of alignment procedure. Shpg. wt., 1 lb.

B7090. 98c NET.....

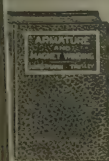
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Contains full data and easy-to-read diagrams for wiring practically every type of electrical apparatus. Enables you to solve wiring problems quickly and efficiently. 210 pages. Pocket size.

B7084. Postpaid..... 98c

ARMATURE AND MAGNET WINDING



Practical 270 page book on all types of D.C. and A.C. armature winding. Complete data on mechanical construction design, ring and drum armatures, commutators, trouble-shooting. Wt., 1 lb.

B7084. NET..... \$1.25

POPULAR GHIRARDI RADIO BOOKS "RADIO PHYSICS COURSE"



2nd Edition. Latest, revised edition of radio's leading school and home-study text book. A remarkably complete course in radio, television, and sound. Explains in an easy-to-understand way all the essential and practical facts about radio, from simple fundamentals to the most intricate applications. Includes valuable and complete information on radio servicing and experimentation. May be used by ambitious radio-minded men as a home-study course in radio, endorsed and used by leading technical schools. Invaluable to the Radio Beginner, Student, Serviceman, Set-Builder, Experimenter, and Amateur. Handy appendices explain symbols, formulas, etc. Almost 1000 pages; 508 illustrations. Cloth-bound.

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Schools and Colleges—Write for Special Quantity Prices.

RADIO TROUBLE-SHOOTER'S HANDBOOK



Ghirardi's new book for "on-the-job" radio servicing. Contains over 500 pages of condensed, tabulated data on thousands of sets (including 1939 models). More than 3300 "case histories," I.F. peak and alignment data, Auto radio installation and servicing, P.A., Recording, etc. Dozens of charts on tubes, coils, filters, transformers, resistors, etc.

B7140. Postpaid \$3.00 In U.S.A.

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An authoritative radio service reference. Discusses the latest test equipment, the newest trouble-shooting and servicing methods for all types of sets, data on noise and interference elimination and antenna systems, auto radio, Cathode-ray aligning, all-wave, high-fidelity, etc. Indispensable for the serviceman who wants to keep abreast of the latest developments in radio servicing. 1300 pages. 706 illustrations, diagrams, etc.

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SPECIAL COMBINATION OFFER

Save time and money by purchasing **MODERN RADIO SERVICING** and **RADIO TROUBLE-SHOOTER'S HANDBOOK** together at reduced price. Use one for instant reference on the job, the other for thorough study of servicing data.

B7141. NET Postpaid In U.S.A. \$6.50

"TWIN GADGETS" FOR TROUBLE-SHOOTERS

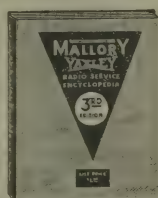
Spot troubles in a flash with these handy new Ghirardi lightning troublefinders. Employ an ingenious "trouble-symptom" method to show you how to detect and service defects in any radio set. Consist of a set each of wear-resisting 4 1/8"x7 1/4" cards—one for Home Radio, one for Auto Radio. A flip of the card gives you an instant summary of possible trouble in any part of the circuit and tells how to correct it. The "Twin Gadgets" are invaluable for saving time in the shop or on the job.

**B5233. FOR HOME RADIOS. } NET EACH, Post-
B5234. FOR AUTO RADIOS. } paid In U. S. A. 50c**



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Third Edition

Latest, revised edition of radio's most complete service manual. Essential service data on more than 17,000 sets. Information on vibrators, I.F. peaks, volume controls, tube complements, transformer and filter circuits. Includes valuable service notes that will save you time on your repair work. Conveniently arranged for instant reference. 264 pages. Shipping weight, 2 lbs.

B11869. NET..... 75c

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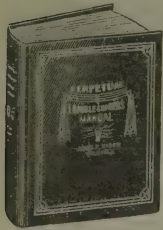
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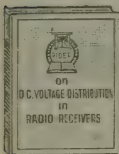
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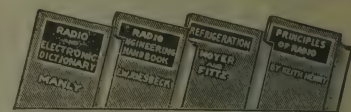
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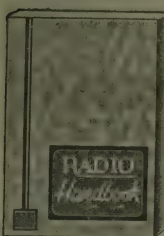
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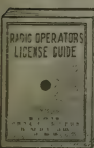
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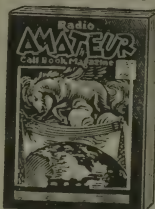
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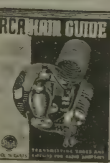
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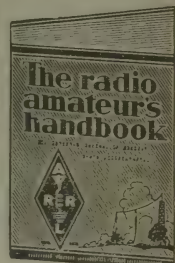


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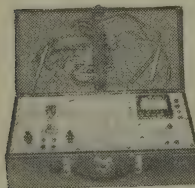
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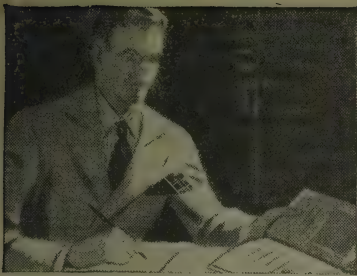
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Every one of your orders—large or small—gets the advantage of **ALLIED'S** exceptionally prompt handling. Radio's most complete stocks and our modern organization assure you of the fastest service in the field. Your orders are carefully filled, packed, and promptly shipped. You can always rely on **ALLIED'S** fast, efficient shipping methods to bring you the radio equipment you want when you need it, and in perfect condition ready for immediate use.

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RADIO is the sole interest of the entire **ALLIED** organization—and in every branch of radio, **ALLIED'S** specialists are ready to serve you. Our technicians—every one a specialist—are prepared to help you with expert advice and information. Whether you are interested in Radio Servicing, Public Address, Amateur Radio, Experimental equipment, Radio for schools, laboratories, or business organizations—**ALLIED** technicians, with years of experience in the field and with a wide range of practical and theoretical knowledge, will give you the information you want. If you want to find out exactly what merchandise you require for a particular application, simply send us a letter with all the details of your problem. You will receive a prompt reply. There is no charge or obligation. **ALLIED** Specialists are always at your service.

CHICAGO CUSTOMERS

For handy quick counter service, visit our City Salesroom. Free parking lot available for our customers. Servicemen, Engineers and licensed Amateurs are always on hand to serve you. If you can't come in, phone your requirements to our City Order Department for prompt delivery. All telephones: HAYmarket 6800.

WE INVITE YOU

On your next visit to Chicago, be sure to visit us in our enlarged Radio Headquarters at 833 W. Jackson Blvd., conveniently located on the edge of Chicago's "Loop." See and hear the famous **Knight** Radio Sets and Sound Systems.

FULL DISCOUNTS

In addition to all trade discounts, a full 2% cash discount has already been deducted from every price in this book. **Our NET catalog prices are the prices you pay.**

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Radio Sets, Windchargers, Generators, Storage Batteries, and any items in this catalog which we have indicated as not mailable, should be shipped by express or freight. In general, it is best to send radio sets by express. If there is no express agent at your location, please be sure to specify your nearest express office. All express shipments are insured. For shipping charges, refer to your local Railway Express agent or write to us. Express charges need not be included in your remittance. Shipment will be made collect.

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You save by ordering merchandise sent by freight where rapid shipment is not essential and merchandise selected weighs approximately 100 pounds or over. The minimum freight charge is for 100 pounds. If you have a freight agent, do not send shipping charges. If you are on a prepaid station, please send funds to pay charges in advance. Any surplus will be promptly refunded. Charges are the same whether prepaid or collect. If there is no freight station at your location, please be sure to specify your nearest shipping point.

PARCEL POST SHIPMENTS

See the table at bottom of page for parcel post rates. If in doubt, ask your postmaster for your zone number and charges on items for which weights are shown, or write to us. Save C. O. D. charges by sending enough money to cover postage. Any surplus will be promptly refunded. If remittance does not cover postage, shipment will be made C. O. D. for the balance. For your protection all our parcel post shipments are insured. Allow for insurance at the following rates:

Up to \$5.00.....	5c
\$5.00 to \$25.00.....	10c
\$25.00 to \$50.00.....	15c
\$50.00 to \$100.00.....	25c

TRANSPORTATION ALLOWANCE

A 2% transportation allowance is made on cash or COD orders of \$25.00 or more except for National Company merchandise and catalog items marked "Postpaid." This applies on shipments made anywhere in the United States. (Orders from U. S. Territories and Possessions, and Canadian as well as Export orders are excepted.) **Deduct this extra allowance in advance for extra savings.**

HOW TO ESTIMATE PARCEL POST RATES

(For U. S. only. Postage rate to Canada is 14c per pound.)
Packages Under 8 Ounces, Allow 1½c Each 2 Ounces

WEIGHT IN POUNDS	ZONES							
	First, Up to 50 MILES	Second, 50 to 150 MILES	Thrd., 150 to 300 MILES	Fourth, 300 to 600 MILES	Fifth, 600 to 1000 MILES	Sixth, 1000 to 1400 MILES	Seventh, 1400 to 1800 MILES	Eighth, Over 1800 MILES
1	8c	8c	9c	10c	11c	12c	14c	15c
2	10c	10c	11c	14c	17c	19c	23c	26c
3	11c	11c	13c	17c	22c	26c	32c	37c
4	12c	12c	15c	21c	27c	33c	41c	48c
5	13c	13c	17c	24c	33c	40c	50c	59c
6	14c	14c	19c	28c	38c	47c	59c	70c
7	15c	15c	21c	31c	43c	54c	68c	81c
8	16c	16c	23c	35c	49c	61c	77c	92c
9	17c	17c	25c	38c	54c	68c	86c	\$1.03
10	18c	18c	27c	42c	59c	75c	95c	1.14
11	19c	19c	29c	45c	64c	82c	\$1.04	1.25
12	21c	21c	31c	49c	70c	89c	1.13	1.36
13	22c	22c	33c	52c	75c	96c	1.22	1.47
14	23c	23c	35c	56c	80c	\$1.03	1.31	1.58
15	24c	24c	37c	59c	86c	1.10	1.40	1.69
16	25c	25c	39c	63c	91c	1.17	1.49	1.80
17	26c	26c	41c	66c	96c	1.24	1.58	1.91
18	27c	27c	43c	70c	\$1.02	1.31	1.67	2.02
19	28c	28c	45c	73c	1.07	1.38	1.76	2.13
20	29c	29c	47c	77c	1.12	1.45	1.85	2.24
For Each Additional Pound Add	1c	1c	2c	3½c	5c	7c	9c	11c

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Take advantage of our 2% Transportation Allowance on all orders for \$25.00 or more. Make **ALLIED** your one dependable source of Radio Supply. See Page 205 for full How-To-Order Information.

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Equip. & Amateur Sets

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**MAKE
RECEIVERS**



**LEARN
CODE**



**MAKE
BROADCASTS**



**MAKE
RELAY**

ELECTRONIC LAB KITS— A SENSATIONAL ALLIED OFFER

Here is the most remarkable new offer ever made to anyone interested in learning all about radio. The new RCA Electronic Lab Kits are absorbing, practical, educational. They make it possible for you to build your own radio receivers, learn radio code, make broadcasts through your radio, construct a relay to turn equipment on and off—and to perform dozens of fascinating, informative experiments. And while you build your equipment—you are learning all the elements of radio. The whole family will be captivated by these new kits. They are the answer to the demand for safe, modern, instructive radio equipment you can actually build and operate yourself. Here is a thrilling new hobby—a chance to learn about radio—a stepping-stone to a career. Here is your chance to explore the whole field of radio and to get hours of enjoyment and knowledge. Imagine the fun you'll have listening to a radio receiver you've actually built yourself. You'll never tire of the RCA Electronic Lab Kits—there are always something new for you to do.

LEARN RADIO EASILY

You can learn all about radio with these fascinating Lab Kits. You can find out for yourself—while you build equipment that works—what a radio set consists of, how the parts operate, how sets are put together, how to solder. You can learn the International Morse Code and how to send and receive wireless messages. You can learn how electronic relays operate—and build your own relay for use as a burglar alarm; to start and stop fans, radios, motors; or to ring bells. You can find out all about microphones and use your own mike to "broadcast" through your home radio set. Furthermore, you'll learn—quickly and easily—the scientific elements of radio, the theories on which modern radio is based. Ideal for class instruction in schools, clubs, Boy Scout groups, etc. It's fun to learn radio this new, easy way. Here's the most interesting and useful hobby you could imagine!

PRACTICAL—USEFUL—COMPLETE

The RCA Electronic Lab Kits are not toys. They are real, working radio kits to make equipment you can actually use. The radio receiver, the wireless code oscillator, the electronic relay, the hand microphone—all are practical pieces of working equipment. The radio set will tune stations 25 (or more) miles away. With the full instructions supplied you can assemble your kits with no difficulty at all. There's nothing else to buy—each of the kits is complete down to the last detail.

QUANTITIES ARE LIMITED!

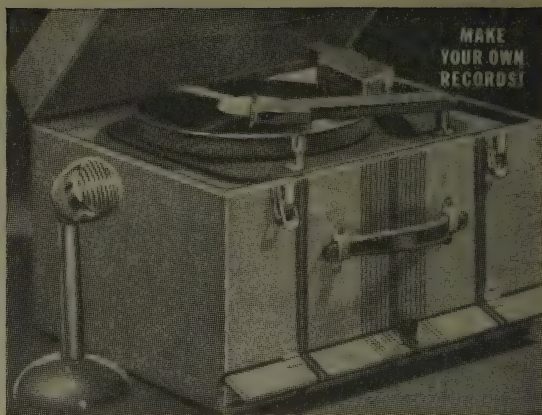
COMPLETE 1 TUBE KIT

B16135. RCA No. 41931 1 Tube Electronic Lab. Complete kit includes: 1 RCA radio tube, condensers, resistors, coil, power transformer, electric relay, telegraph key, microphone, earphone, sockets, binding posts, insulated wiring, mounting board, solder, electric soldering iron, and necessary assortment of spacers and mounting screws. Every part you need for complete operation is included. With 16-page manual of instructions. For operation from 110 volts, 60 cycles A.C. Wt., 8 lbs. **SPECIAL NET PRICE.....\$2.95**

COMPLETE 2 TUBE KIT

B16136. RCA No. 41908 2 Tube Electronic Lab. Complete kit includes: 2 RCA tubes, condensers, resistors, power transformer, electric relay, telegraph key, microphone, coil, earphone, sockets, binding posts, mounting board, solder, electric soldering iron, insulated wiring, and necessary assortment of spacers and mounting screws. Includes every part needed to build a two-tube receiver and other equipment described. With 16-page manual of instructions. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 8½ lbs. **NET PRICE.....\$3.75**

**BUILDERS!
EXPERIMENTERS!
BEGINNERS!**



Knight HOME RECORDER ATTACHMENT—WORKS WITH ANY RADIO SET

Make your own recordings and play records by adding this new Home Recorder and Record-Player to your radio set. Operates perfectly with any 110 V. 60 cycle AC radio or amplifier. Includes complete equipment necessary for recording of voice or music with microphone or for recording programs "off the air." Cuts records up to 10" from outside to inside at 110 lines per inch. Plays all records up to 12" size. Latest desirable features include: magnetic cutter which connects to any 6-8 ohm voice coil circuit supplying 3 watts power; built-in 6J7 pre-amplifier; 78 RPM induction motor with rim drive to turntable; Shure crystal mike with table stand and 7' of cable; high impedance crystal pickup; neon volume indicator; headphone jacks; "playback" or "record" switch. Designed for exceptional ease of operation and remarkably fine results.

IT'S EASY TO MAKE QUALITY RECORDINGS

Anyone can make records with this new Knight attachment. There's nothing to it. Just set control for record-cutting, lower cutting head over disc, adjust volume as indicated by neon bulbs—and you're recording! You can make records of your family's voices, of important family events, of singing, and of musical selections. You can also record programs tuned in by your radio set. Complete assembly supplied in attractive carrying case finished in airplane luggage cloth; has compartment for records. Size: 17½" long, 13¾" wide, 11¾" high. For 110 volts, 60 cycles A.C. Shpg. wt., 20 lbs. **B16245. NET PRICE.....\$29.95**

RECORDING MECHANISM ONLY

As above, but does not include case, microphone, pre-amplifier or volume indicator. Mounted on metal plate 13"x12¼". Requires 2½" space above motor board, 4¼" below. (Does not record from microphone unless pre-amplifier is used.) For 110 volts, 60 cycles, A.C. 15 lbs. **B15801. NET PRICE.....\$14.95**



Efficient, practical two-way French-style telephones for use in homes, offices, stores, etc. Provide an economical and effective means of communication. Exceptionally easy to install and use; full, easy-to-follow instructions are supplied. Anyone can quickly set up the Realphones system. Operate on standard dry cells; two cells required for distances up to 450 feet. (For greater distances use extra batteries). Sturdy, compact phones—attractively designed. Furnished in sets of two; for use in pairs only. Complete set consists of 2 Realphones with built-in buzzers and 35 feet of wire. Instructions for installation included. Shpg. wt., 6 lbs.

B1980. Black, NET \$4.20 Lots of 3 Sets, EACH.. **\$3.92**
B1983. Chinese Red, EACH..
B8925. Dry Cells, 2 required per set, EACH.....21c
B1984. 100 feet cable for outdoor use, NET.....\$1.85
B1985. 100 feet cable for indoor use, NET.....1.55

SERV-U-FONE MULTIPLE TELEPHONES

We can supply multiple-unit telephone systems for all types of installations. These systems consist of the well-known **Serv-U-Fone** equipment, offering facilities for telephone circuits providing from two to ten stations, including common talk, selective, and super-selective types. **Serv-U-Fone** systems are ideally suited for telephone communication in homes, stores, offices, factories, schools, etc. They consist of scientifically designed equipment built to withstand heavy usage. Attractive French-style desk sets or wall-type telephones are included in **Serv-U-Fone** systems to meet your needs. While not designed for connection to public exchange systems, **Serv-U-Fones** meet every requirement for private service. There is a system available to meet any requirement. Simply give us full particulars concerning the type of installation you require, and we shall quote promptly for the proper equipment.

Colorful=Smart=Original

THE SPARKLING NEW "Tiny Knights"

Sparkling . . . smart . . . refreshingly original and different . . . here are the new "Tiny Knights" in all the beauty and color and charm of which plastics is capable. Here are the most delightful of all midget radios! Truly jewel-like in their perfection, these "Tiny Knights" rendered in a charming gaiety of color, have an irresistible appeal. They're small enough to fit in the palm of your hand—they make the perfect "extra" radio—yet they're truly good enough to serve as your only set! There's nothing like these "Tiny Knights" in all radio.

Play Them Anywhere! Enjoy these wonderful "Tiny Knights" anywhere—in bedroom, kitchen, den, sun-porch, living room, dormitory . . . there's the right color combination to match every setting. And they work with equal efficiency from 110-120 volts, 50-60 cycles AC, as well as 110-120 volts DC (also from 220 volts with adapter listed below). The handy length of wire on attached antenna hank serves as efficient aerial. Play anywhere; carry anywhere. You won't want to be without a "Tiny Knight" once you've seen it and heard it.

Easy to Tune! Just two controls, handily placed at the top of the cabinet—both plastic-molded—one for logging stations, the other for volume. Extended tuning range is from 535-1712 KC, covering not only all standard Broadcast programs but the popular 1712 KC Police Channel as well. You'll like the ease and convenience with which you can tune this efficient little receiver.

Strong Reception. The RCA licensed 4 tube circuit (including rectifier) develops astonishing output and strong reception. Uses 12SK7GT as RF Amp.; 12SJ7GT as Det.-Audio (dual-purpose); 50L6GT as Output; 35Z5GT as Rect. The 50L6GT stage develops 1.2 watts output (1.5 watts maximum)—more than the power often obtained in many larger models. Assures strong volume which is beautifully handled and recreated delightfully as faithful tone by the new type of fine-fidelity heavy-duty PM Dynamic Speaker. You'll be amazed at the tone quality and power of these midget radios!

Gem-like Beauty. Not even our natural color illustration can do justice to the beauty of the "Tiny Knights." They're simply outstanding for their cameo-like design—wrought in plastics so that they look like jewels. Softly-rounded, graciously compact, they are ingeniously styled and available in a new type of intriguing color combinations. They're really tiny—only $7\frac{1}{4}$ " long, $\frac{3}{4}$ " deep, $5\frac{1}{8}$ " high. Here's the last word in an ultra-compact quality receiver.

"Tiny Knights" Complete. The "Tiny Knight" 4 is supplied complete with tubes as described. For 110-120 volts, 50-60 cycles AC or DC. Shpg. wt., $\frac{4}{2}$ lbs.

B10502. Blue-Green top—Maroon bottom—Yellow knobs.

B10503. Tan top—Blue-Green bottom—Yellow knobs.

B10504. Maroon top—Tan bottom—Orange knobs.

NET PRICE, EACH, \$6.90.

NET PRICE, LOTS OF 3, EACH

B9144. 220 Volt Adapter for above sets. **NET 59c**

\$6⁵⁵

**R.C.A.
Licensed**



Knight MINIATURE PORTABLES

Here's the finest of the camera-like Portables on the market today. Just what "America-on-the-Go" has been waiting for! A powerful little Personal Portable 1.4 Volt Superhet with everything built in, that carries just like a camera. Looks like a camera, too. There's nothing else like it in radio! Just check these amazing performance features:

Everything Built-In. Has "Magna-Beam"—no aerial or ground required. Batteries are all inside, too; plastic case opens easily just like a camera and batteries clip right into place.

1941 Superhet. Powerful, sensitive—licensed by RCA. Uses 4 of the newest low-drain tubes (multi-purpose, too, for extra efficiency). Tunes 535 to 1720 KC; covers the whole standard Broadcast band and the 1712 KC police channel. Tuning is mighty easy with the full-vision molded dial. Has Automatic Volume Control to prevent fading. A full 4-inch PM Dynamic speaker reproduces with amazing fidelity. You can use headphones, too, for privacy or long-distance listening (see below); when you plug phones in, the speaker is automatically silenced.

What Economy! The Knight Miniature uses three ordinary flashlight cells for "A" supply and 1—45 V. portable "B." "A" gives 25 hours of service. "B" gives 60 hours. Batteries are available at low-cost anywhere.

Smart Plastic Case. Have you ever seen such beauty! Look at those sleek, lines, at the handsome trim. You'll be proud to carry the Knight miniature either by its handle or slung over your shoulder. Size is only $8\frac{1}{2}$ " x $5\frac{1}{2}$ " x $4\frac{1}{4}$ ". Weighs only 5 lbs. Available in smooth Brown or in sleek Black.

The Knight 4 Tube 1.4 Volt Portable Superhet is offered as illustrated, complete with tubes and batteries, with carrying handle. Shpg. wt., 7 lbs.

B10506. Brown. **\$9⁷⁵** **B10505. Black.**
NET EACH, \$10.25. **NET EACH, \$11.25.**
LOTS OF 3, EACH **LOTS OF 3, EACH**

B9151. Extra Set of Batteries. **NET \$1.15**
B9152. Brown Shoulder Strap for Brown Model. **NET 35c**
B9150. Black Shoulder Strap for Black Model. **NET 35c**
B9155. Suede Carrying Case for Either Model. **NET 70c**
B5278. Trimm Single Type Headphone for Privacy, Long-Distance or Hard-of-Hearing Listening. **NET 70c**



**R.C.A.
Licensed**

**Plastic
Cabinet Carries
Like a Camera**



NOW! De Luxe RADIO-PHONOGRAPH
with Perfected HOME RECORDER
AT A POPULAR PRICE



Knight 6 TUBE PHONO-RADIO-RECORDER

We're setting the pace for 1941 with this greatest of all Home Entertainment Instrument Values! There's never been anything like it! It's really Four Complete Instruments in one—each bringing you new home entertainment thrills. Just imagine: (1) A Complete Recorder for making your own high-quality records inexpensively, easily; (2) a powerful 6 Tube (with rectifier) Superhet Radio Receiver; (3) a Complete Quality Electric Phonograph; (4) an efficient Home Broadcaster System—and all at a price no higher than you'd ordinarily pay for a good table model radio alone. We're proud to be first to bring you this Complete Home Entertainer—at a price you can afford.

Make Your Own Records! There's nothing to it! Just set the recording head on the blank disc and cut your own quality records. Make records of your favorite radio programs—dance bands, singers, important public speeches, etc. Make home recordings over the microphone, of family or friends' voices, and of family events. Invaluable for musicians, dramatic students and speakers.

It's Easy To Make Records! Anyone can do it perfectly with the efficient, simplified recording mechanism. Consists of a heavy-duty rim-driven motor with 10-inch weighted turntable. Has quality magnetic cutting head in heavy die-cast arm with automatic switching arrangement: when arm is placed in position to cut, circuit is automatically switched in to record perfectly. Head has adjustment to cut any coated home recording blanks properly. A neon level indicator shows visually the proper sound level for recording. Recordings from radio are made direct; home recordings are made over Crystal microphone which is supplied. There's nothing to it!

The Radio Receiver. 1941 in every detail. Tunes 540-1730 K.C. for all American and Canadian Standard Broadcast and police calls. Features: built-in "Magna-Beam"—no aerial, no ground needed; big 4¼" x 4¼" Airplane Dial; Tone Control for bass or treble emphasis as desired; A.V.C. to keep volume uniform on all programs; 4 watts output—amazing power that means the finest results on radio, recording and phonograph; special 6-inch P.M. Dynamic Speaker, one of the finest made, for superb tonal results. R.C.A. and Hazeltine licensed Superhet uses: 6SA7, 6SK7, 2-6SQ7, 6K6GT, 5Y3G. The Radio portion alone is worth the cost of the complete instrument.

The Record Player. You get a perfect-playing phonograph in the Knight 6 Combination. The extra-heavy turntable, designed for recording purposes, assures even speed and smoothness not found in ordinary home phonographs. The Crystal pickup reproduces with rare fidelity. Both 10-inch and 12-inch records may be played with the cabinet lid closed.

Beautiful Table Model. You'll admire the clean, modern lines of the Knight 6 table model cabinet. Fashioned of selected walnut veneers, finished in a high lustre. Size: 20½" long; 15¾" deep; 11¾" high. The Knight 6 Combination comes complete as described, including tubes, Crystal microphone, steel recording needle, five 6½-inch double-side non-inflammable blank recording discs, and instructions. For 110 volts, 60 cycles AC. Shpg. wt., 38 lbs. Code: COREX.

\$10530. Value, \$74.50.
NET PRICE EACH, \$39.90.

YOUR PRICE, LOTS OF 3 EACH.....

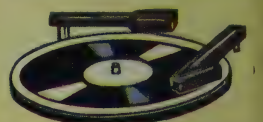
\$37⁹⁰

For Recording Blanks, Needles and Phonograph Accessories, see Pages 30-31, and 94.

4 INSTRUMENTS IN AN AMAZING VALUE



MAKES QUALITY RECORDS



PLAYS BACK ALL RECORDS



SERVES AS BROADCASTER



TUNES RADIO POWERFULLY

ALLIED RADIO *Corporation*

833 W. JACKSON BLVD. • CHICAGO, ILLINOIS • CABLE ALRADIO • PHONE HAYMARKET 6800

Can you use this **CATALOG?** → → →

ALLIED'S 1941 Spring and Summer Catalog is the only complete radio catalog printed in 1941. This 180-page book, with 80 pages in rotogravure, covers in color, and original front cover design of unusual dramatic interest, has been expensive to produce. You will appreciate that distribution has to be limited to our most active accounts.



You have been receiving our catalog regularly, but since it does not appear from our records that you have made any purchases recently, we don't know whether or not you want us to send you our new 1941 book. Here's a brief list of its contents:

RADIO SETS. More than 60 models — every one a Champion. New "Personal" Portables that operate from batteries or home current; latest Recorders; Phono-Combinations; Plastic Sets; new FM-AM receivers; Auto and Farm Radios; Amateur Sets -- all at lowest prices.

SOUND EQUIPMENT. 25 new Sound Systems. For every Public Address application. 7 to 75 watts. Complete line of accessories.

AMATEUR EQUIPMENT. A complete line of Receivers, Transmitters, and parts for the "Ham."

FOR THE BUILDER AND RADIO STUDENT. Latest low-cost kits, builders' and experimenters' supplies, new diagrams and books.

FLUORESCENT LIGHTING. For better, cooler, economical light. A wide variety of easy-to-install Fluorescent units at lowest prices.

15,000 RADIO PARTS. The biggest selection of quality parts in all radio.

Can you use this catalog? If you can, we shall be very happy to send it to you. Simply fill in the stub below and send it to us in the convenient envelope we have provided.

If you want some merchandise right away, make your selection from any ALLIED Catalog you have on hand, and send in your order, too. It will be filled at lowest prevailing prices and shipped promptly.

Cordially yours
ALLIED RADIO CORPORATION

Check, detach and mail this stub.

☐ RUSH ALLIED'S NEW CATALOG

DATE _____

Classification: ☐ DEALER; ☐ SERVICEMAN; ☐ AMATEUR; ☐ ENGINEER;
☐ INDUSTRIAL BUYER; ☐ SCHOOL BUYER; ☐ GOVERNMENT BUYER;
☐ EXPERIMENTER OR BUILDER; ☐ OCCASIONAL USER OF RADIO PRODUCTS

Name _____

Address _____

City _____ State _____

P.S. ☐ Order enclosed. Please RUSH.



How to Order FROM ALLIED

IT'S EASY TO ORDER

This convenient order blank makes it easy to order. Simply read the "How-to-Order" information below, write your order on the other side of this sheet, and mail it to us with your remittance.

USE OUR ORDER BLANK

Use our convenient order blank on the reverse side of this sheet. Type or print your name and address in full and specify whether shipment is to be made by Parcel Post, Express, or Freight. List the items you want—one to a line—making sure to give the correct catalog number for each item. Enter correct prices and make extensions carefully. Then total your order and make your remittance large enough to cover both the cost of the merchandise and shipping charges (unless C. O. D. shipment is requested).

HOW TO SEND MONEY

Money may be sent most safely by post office or express money order, bank draft, or check. Avoid sending coin or currency, but if necessary, be sure to register your letter. For special haste, telegraph your order and money through any Western Union or Postal Telegraph office. Make allowance for postage on parcel post orders; prompt refund of any excess follows shipment. Express and freight orders are sent transportation collect unless your station has no agent.

SHIPMENTS TO CANADA

There is no Parcel Post C. O. D. service to Canada. C. O. D. shipments to Canada are made by Express or Freight only. Include 20% deposit with C. O. D. order and specify nearest Express or Freight office. Parcel Post weight limit to Canada is 15 lbs.; postage rate is 14c per lb. On Parcel Post shipments include full remittance for merchandise, postage, and insurance. All items heavier than 15 lbs. must be shipped by Express or Freight. All catalog prices are based on United States currency. U. S. exchange may be easily obtained and remitted by bank draft or postal or express money order. If you remit in Canadian currency, allow for difference in exchange. Consult your nearest bank for prevailing rate. Canadian shipping requirements also apply to Newfoundland and Labrador.

OUR TERMS

Our terms of sale are cash with order or C. O. D. We ship C. O. D. if you wish (except on orders for special, uncatalogued merchandise). New customers are requested to include a 20% remittance with first orders when specifying C. O. D. shipment. A 20% deposit should also be included with C. O. D. orders for heavy items such as windchargers, batteries, and console radios. All quotations in our catalog are net, F. O. B. Chicago (except where noted). All prices are necessarily subject to change without notice. (We reserve the right to add any Federal or State Taxes which may be levied after Catalog is printed.)

FULL DISCOUNTS

In addition to all trade discounts, a **FULL 2% CASH DISCOUNT HAS ALREADY BEEN DEDUCTED** from every price in our Catalog. Our net catalog prices are the prices you pay. **You receive full discounts even if you prefer part C. O. D. shipment.** You save C. O. D. collection costs, however, by remitting in full.

U. S. TERRITORIES

Eight-zone postage rates apply on orders to U. S. Territories and Possessions. Parcel Post weight limits are 70 pounds, except for the following weight limits to the Philippines: Manila, Iloilo, Cebu, Baguio, Davao City, Zamboanga—70 lbs.; all other places—20 lbs. Include a 20% deposit with all Parcel Post C. O. D. orders, **except remit in full for merchandise and postage on mail orders to the Philippines and the Canal Zone.** There is no Parcel Post C. O. D. service to these territories. Large radios, bulky units and items indicated as not mailable are shipped by freight. Terms on freight shipments are 50% deposit, balance by sight draft attached to shipping documents; or send an irrevocable letter of credit on a U. S. bank for full amount.

PARCEL POST SHIPMENTS

See the table and map immediately below for parcel post rates. If in doubt, ask your postmaster for your zone number and charges on items for which weights are shown, or write to us. Save C. O. D. charges by sending enough money to cover postage. Any surplus will be promptly refunded. If your remittance does not cover postage, shipment will be made

C. O. D. for the balance. For your protection all our parcel post shipments are insured. Allow for insurance at the following rates:

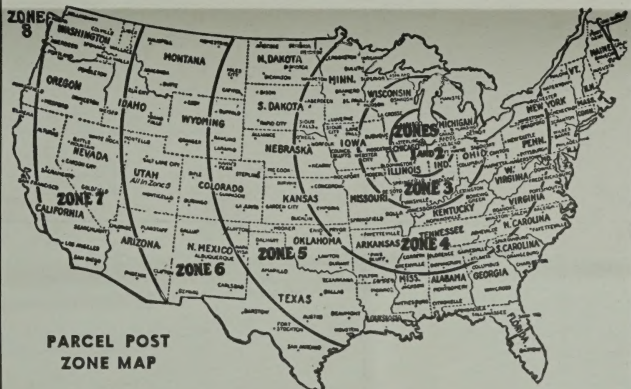
Up to \$5.00	5c
\$5.00 to \$25.00	10c
\$25.00 to \$50.00	15c
\$50.00 to \$100.00	25c

BE SURE TO INCLUDE ENOUGH POSTAGE—EXCESS WILL BE REFUNDED

HOW TO ESTIMATE PARCEL POST RATES

(For U. S. only. Postage rate to Canada is 14c per pound.)
Packages Under 8 Ounces, Allow 1½c Each 2 Ounces

WEIGHT IN POUNDS	ZONES							
	First, Up to 50 MILES	Second, 50 to 150 MILES	Third, 150 to 300 MILES	Fourth, 300 to 600 MILES	Fifth, 600 to 1000 MILES	Sixth, 1000 to 1400 MILES	Seventh, 1400 to 1800 MILES	Eighth, Over 1800 MILES
1	8c	8c	9c	10c	11c	12c	14c	15c
2	10c	10c	11c	12c	13c	14c	16c	17c
3	11c	11c	12c	13c	14c	15c	17c	18c
4	12c	12c	13c	14c	15c	16c	18c	19c
5	13c	13c	14c	15c	16c	17c	19c	20c
6	14c	14c	15c	16c	17c	18c	20c	21c
7	15c	15c	16c	17c	18c	19c	21c	22c
8	16c	16c	17c	18c	19c	20c	22c	23c
9	17c	17c	18c	19c	20c	21c	23c	24c
10	18c	18c	19c	20c	21c	22c	24c	25c
11	19c	19c	20c	21c	22c	23c	25c	26c
12	20c	20c	21c	22c	23c	24c	26c	27c
13	21c	21c	22c	23c	24c	25c	27c	28c
14	22c	22c	23c	24c	25c	26c	28c	29c
15	23c	23c	24c	25c	26c	27c	29c	30c
16	24c	24c	25c	26c	27c	28c	30c	31c
17	25c	25c	26c	27c	28c	29c	31c	32c
18	26c	26c	27c	28c	29c	30c	32c	33c
19	27c	27c	28c	29c	30c	31c	33c	34c
20	28c	28c	29c	30c	31c	32c	34c	35c
For Each Additional Pound Add	1c	1c	2c	3½c	5c	7c	9c	11c



PARCEL POST ZONE MAP

FOR ADDITIONAL INFORMATION SEE "HOW TO ORDER" PAGE IN OUR CATALOG

FREIGHT SHIPMENTS

Freight shipment is especially recommended on orders where rapid delivery is not essential and merchandise selected weighs approximately 100 pounds or over. The minimum freight charge is based on shipping weight of 100 lbs. When specifying freight shipment, do not send shipping charges with your order if there is a freight agent in your locality. However, if you are on a prepaid station, please send funds to pay freight charges in advance. Any surplus in your remittance will be promptly refunded. Charges are the same whether prepaid or collect. If there is no freight station at your location, please be sure to specify your nearest shipping point. For specific information about freight charges for items in our Catalog on which weights are shown, consult your freight agent or write us.

EXPRESS SHIPMENTS

Radio sets, windchargers, generators, storage batteries, and any items which we have indicated in our Catalog as "not mailable" should be shipped by express or freight. In general, it is best to send radios and bulky merchandise by express rather than by parcel post. This assures quick shipment and safe delivery. If there is no express agent at your location, please be sure to specify your nearest express office. All express shipments are insured for your protection. Consult the table at right for approximate express charges (insurance charges are included for values under \$50). For more specific information about express charges, see your local Railway Express agent or write us. Express charges need not be included in your remittance. Shipment will be made collect at no extra charge.

HOW TO ESTIMATE EXPRESS CHARGES

Weight Not More Than	FOR DISTANCES OF							
	100 MILES	200 MILES	300 MILES	500 MILES	750 MILES	1000 MILES	1500 MILES	2000 MILES
5 Lbs.	25c	25c	30c	35c	35c	45c	50c	65c
10 Lbs.	30c	31c	40c	50c	50c	65c	84c	\$1.10
15 Lbs.	34c	41c	47c	61c	70c	88c	\$1.20	1.59
20 Lbs.	42c	51c	59c	78c	90c	\$1.14	1.57	2.09
25 Lbs.	50c	61c	71c	94c	\$1.09	1.40	1.93	2.59
35 Lbs.	66c	82c	95c	\$1.28	1.49	1.91	2.67	3.58
45 Lbs.	82c	\$1.02	1.19	1.62	1.89	2.43	3.40	4.57
55 Lbs.	98c	1.23	1.44	1.95	2.28	2.95	4.13	5.57
75 Lbs.	\$1.30	1.63	1.92	2.62	3.07	3.98	5.59	7.55
90 Lbs.	1.54	1.94	2.28	3.13	3.67	4.76	6.69	9.04
For each 100 Pounds	1.60	2.04	2.42	3.36	3.96	5.17	7.32	9.93

FROM:

Name _____

Street or
RFD and Box _____

Post
Office _____

State _____

PLACE
POSTAGE
STAMP
HERE

ALLIED RADIO CORP.

833 W. JACKSON BLVD.

CHICAGO, ILLINOIS

SECTION 7